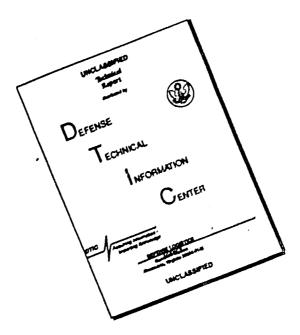


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REPORT DOCUMENTATION	READ INSTRUCTIONS BEFORE COMPLETING FORM				
I. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER			
ARI Research Product 85-08	AD- A172416				
4. TITLE (and Substitle)		S. TYPE OF REPORT & PERIOD COVERED			
A RAPID TRAIN UP PROGRAM FOR M60A	3 ARMOR	10/83-10/84			
FORCE MOBILIZATION OR RECONSTITUT	CON	Final Report			
		6. PERFORMING ORG. REPORT NUMBER			
7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(*)			
Ronald E. Kraemer, Michael R. Ande	,				
Donald M. Kristiansen, & Jared B.	Jobe				
9- PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM EL EMENT PROJECT TASK			
U.S. Army Research Institute for t	the Behavioral	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS			
and Social Sciences, 5001 Eisenhow					
Alexandria, VA 22333	·	2Q263743A794			
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE			
U.S. Army Research Institute for t	che Behavioral	February 1985			
and Social Sciences, 5001 Eisenhow	ver Avenue,	13. NUMBER OF PAGES			
Alexandria, VA 22333		222			
14. MONITORING AGENCY HAME & ADDRESS(II different	from Controlling Office)	15. SECURITY CLASS, (of this report)			
		Unclassified 15a. DECLASSIFICATION/DOWNGRADING			
		SCHEDULE			
17. DISTRIBUTION STATEMENT (of the ebetrect entered :	in Block 20, If different fro	m Report)			
18. SUPPLEMENTARY NOTES	_ <del></del> _	· · · · · · · · · · · · · · · · · · ·			
Related report is RP 85-0	J9.				
9. KEY WORDS (Continue on reverse side if necessary an	d identify by block number)				
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M60A3 Tank Sustainment To		<del>Unit Traini</del> ng			
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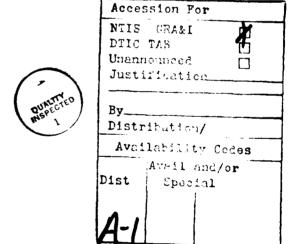
A Field Operating Agency under the Jurisdiction of the Deputy Chief of Staff for Personnel

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#### Research Product 85-08

## A Rapid Train-Up Program for M60A3 Armor Force Mobilization or Reconstitution

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Office, Deputy Chief of Staff for Personnel

Department of the Army

February 1985

Army Project Number 2Q263743A794

Small Unit Performance Training Methods (Adv Dev)

Approved for public release; distribution unlimited.

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Armor forces throughout the U.S. Army must be prepared to rapidly mobilize in case of war or reconstitute following a major loss of crew personnel during combat. Specifically, since individual tank crews must be fully manned with trained, qualified soldiers at all duty positions, a standard operating procedure must be positioned for assigning armor and non-armor personnel to fill vacated crew positions. More importantly, transition-type training materials that can be used to rapidly prepare experienced and novice soldiers for armor combat must be present for immediate implementation. Failure to meet these basic requirements constitutes a serious threat to unit combat readiness. Specific training programs for conducting rapid armor force mobilization or reconstitution training are non-existent.

To assist the U.S. Army, particularly the U.S. Army Armor Center (USAARMC), the U.S. Army Research Institute for the Behavioral and Social Sciences (ARI) developed a rapid train-up program for M60A3 armor units. The training program consists of seventy-nine (79) separate training modules, each designed to prepare tank commanders, gunners, drivers, and loaders in their basic individual tank gunnery skills required for armor combat. Each module identifies administrative and training resource requirements to conduct training, provides a training needs assessment approach complete with evaluation instruments, and suggests a best method/approach to maximize training outcomes. Also included are separate chapters on how to use the training modules, how-to-train, and a methodology for managing a rapid train-up program.

EDGAR M. JOHNSON Technical Director

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### A RAPID TRAIN-UP PROGRAM FOR M60A3 ARMOR FORCE MOBILIZATION OR RECONSTITUTION

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PART 1

TRAINING MANAGER'S GUIDE

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#### INTRODUCTION

The criticality of training to mission success demands an active, effective planning and quality control system to ensure that established training goals are met. This is important during peacetime, but extremely important when tank crews must be rapidly prepared for combat during armor force mobilization or reconstitution. As a Company Commander, managing such a rapid train-up program will be one of your major responsibilities. This guide will help you achieve that goal.

#### THE TRAINING PROGRAM

A rapid train-up program for M60A3 armor force mobilization or reconstitution has been developed to prepare tank crewmen for combat. The program has two parts:

- Training Modules - compact, ready made instructional units that provide a best method approach on how to train and evaluate tank crewmember job task performances.
- Training Guidance - sound, learning-based guidance on how soldiers acquire knowledge and skills and what trainers can do to increase their training effectiveness.

The noncommissioned officers (NCOs) within the company are responsible for training the tank crews in their individual skills using the training modules. They are also responsible for keeping a record of who was trained on what tasks, and for providing that information on a daily basis to their respective platoon leader.

#### TRAINING MANAGEMENT

As a Company Commander you have two major training management responsibilities:

- $\bullet$  Planning training. You, in conjunction with the battalion S-3 and platoon leaders most select the time and place for conducting training and obtaining the required training resources.
- Controlling training. You, in coordination with your platoon leaders and NCOs, must control the training process by assessing the product or results of training and monitoring the overall efficiency of the training program.

How to best accomplish each of these responsibilities is presented in Chapter 3 of this guide. Before referring to this chapter read Chapter 1, which describes a training module and how to use it, and the training guidance presented in Chapter 2.

#### CHAPTER 1

#### DESCRIPTION OF TRAINING MODULES

This chapter describes the training modules developed for training tank commanders (TCs), gunners (GNRs), drivers (DVRs), and loaders (LDRs). It also describes the contents of a training module and how to use it.

#### TASKS COVERED BY TRAINING MODULES

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Separate training modules have been developed for training TC, GNR, DVR, and LDR tasks. The tasks covered by TC training modules are listed in Appendix A, Table A-1, Tasks covered by GNR, DVR, and LDR training modules are listed in Appendix A, Table A-2, A-3, and A-4 respectively. Collectively, these tasks represent the basic skills required by M60A3 armor crewmen to engage and defeat the enemy.

The number of tasks that can be trained during force mobilization or reconstitution will vary depending on each unit's personnel training needs and amount of available training time and resources. Nevertheless, the order in which the tasks are listed in the tables should be the order in which they are trained. On inspection, you will find that those tasks presented at the top of each table contain the knowledges and skills that a soldier must possess to perform all subsequent tasks.

#### HOW TO USE A TRAINING MODULE

Each training module consists of a single page. The front side presents the administrative and training requirements, pretest procedure, training prescription, and training progress decision flow chart. The back side contains the task details needed for practice and evaluation.

To teach you how to use a training module, we will use TRAINING MODULE NO. 1% eloped for the tank commander. Since the format of all training modules is the same, you should have no difficulty in using those developed for all other tasks.

#### Training Description

CREW POSITION: TANK COMMANDER TRAINING MODULE NO: 1

TASK: CLEAR THE M85 MACHINEGUN. TIME: 10 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10; TM 9-1005-231-10.

SUPPORT REQUIREMENTS: 1 M85 MACHINEGUN; 1 BELT OF CALIBER .50

DUMMY AMMO (10 ROUNDS).

(continued)

This is the first section on the front side of a training module. It is used to describe both administrative and training requirements. Starting with the first line at the top left are the words CREW POSITION. This tells you for whom the module is intended. This will be either the Tank Commander, Gunner, Driver, or Loader. In this sample module it is TANK COMMANDER.

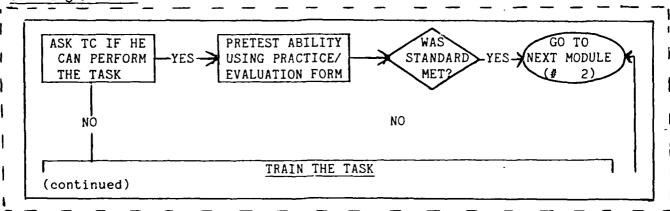
Straight across from CREW POSITION is the number of the training module: TRAINING MODULE NO: 1. This number simply helps keep track of the 22 separate modules developed for the TC position. The second line contains the title of the TASK and the TIME allocated to train it. In this sample module the TC will be trained to CLEAR THE M85 MACHINEGUN. The time allowed to train the task is 10 minutes.

The next line contains the title PREREQUISITE TASKS. These are tasks that should be trained prior to training on the present module. In this sample module there are NONE.

The fourth line contains a listing of TRAINING REFERENCES (literature, tapes, film, etc.) that describe how to perform the task. In the sample module, two Training Manuals (TMs) are cited; TM 9-2350-253-10 and TM 9-1005-231-10.

The last line in the training description specifies the SUPPORT REQUIRE-MENTS (equipment, materials, ranges, etc.) needed for conducting the training. The sample module requires an M85 machinegun, and a 10 round belt of .50 caliber dummy ammunition.

#### Training Pretest



This section of a training module is used to determine whether there is a need for training. To make this decision, start with the first box on the left that contains the words ASK TC IF HE CAN PERFORM THE TASK. If the TC answers "NO", then follow the arrow down to the box that contains the words TRAIN THE TASK. (How to do that is covered in the next section). If the TC answers "YES", then follow the arrow to the right to the box that contains the words PRETEST ABILITY USING PRACTICE/EVALUATION FORM. Even though he says he can do it, you need to pretest him because people commonly overestimate their ability to perform tasks. (How to do that is covered in the last section). After giving the pretest go to the diamond figure to the right of the pretest box and answer the question "WAS STANDARD MET?" If the

answer is "NO", follow the arrow down to the box that contains the words TRAIN THE TASK. If the answer is "YES", follow the arrow to the right to the oval figure that contains the words GO TO NEXT MODULE (# 2). In short, if the TC says he can perform the task and "passes" the pretest, there is no need to train him in that task.

#### Training Prescription

#### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements (warnings).

#### DEMONSTRATE

- Position yourself in TC seat with TC observing from outside hatch.
- 2. Place the M85 safety in "S" position (dummy ammo loaded).
- Walk through the clearing procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for clearing the M85 machinegun, without interruption.

#### PRACTICE

- 1. Have the TC perform each step in clearing the M85 procedure as you announce them (use Practice/Evaluation form).
- 2. Provide prompts/cues to guide performance while reinforcing correct responses.
- 3. Critique performance while reinforcing correct responses.
- 4. Have the TC clear the M85 Machinegun, without prompting.
- Repeat Steps 1-4 until satisfied with TC's performance.

#### EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Clears the M85 Machinegun correctly and without delay.

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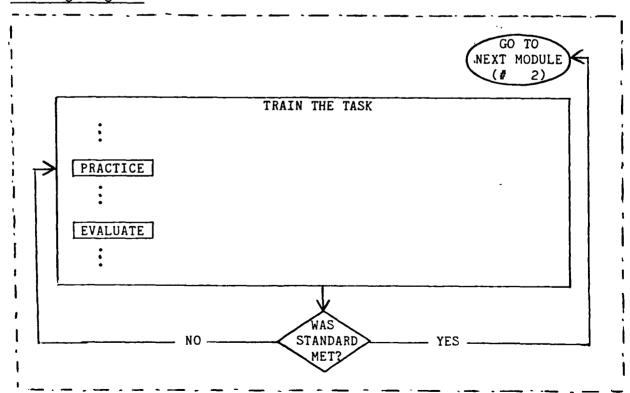
This section, which is on the front side of a training module, is used for conducting performance oriented training. To begin training, start with the box labeled INTRODUCE. In this sample training module, state the training requirement (step 1) and emphasize safety regulations (step 2). Do this in your own words, adding whatever additional comments, remarks, or descriptions you think would best introduce the training that will take place. If necessary ask questions to ensure the soldier (TC) understands what and how training is to be conducted.

Next, go to the box labelled DEMONSTRATE. This describes <u>how</u> to demonstrate the task. It doesn't tell you how to perform the task. How to perform the task is shown on the PRACTICE/EVALUATION FORM (this is covered in the last section). It is always assumed that the person conducting the training knows how to perform the task. In the DEMONSTRATION component, you are told how to prepare yourself and the TC (step 1), how to set up the equipment (step 2), and how to demonstrate the task using the crawl-walk-run training approach (steps 3-4).

After demonstrating the task to the soldier (TC), you should proceed to the box labelled PRACTICE. This lists how the practice is best conducted. In the sample training module you are told to have the soldier (TC) perform each task step as you announce them (step 1), provide prompts/cues to guide his performance (step 2), critique and reinforce correct responses (step 3), have the TC perform the task without prompting (step 4), and to repeat the procedure until you're satisfied with his performance.

The last phase in conducting training is identified by the box labeled EVALUATE. The evaluation is the soldier's final examination on the task. In carrying out this phase of training you will always inform the soldier (TC) on how the evaluation will be conducted and the testing standard (step 1). Do this in your own words. To begin testing, follow the procedure shown on the PRACTICE/EVALUATION FORM (step 2). After the evaluation, determine whether or not the soldier (TC) met the test standard (step 3).

#### Training Progress



This final section on the front of a training module controls the soldier's progress through the training program. To begin, follow the arrow down to the diamond figure and answer the question "WAS THE STANDARD MET?". If the answer is "NO", follow the arrow to the left to the box inside the TRAIN THE TASK section that contains the word PRACTICE and resume training. If the answer is "YES", follow the arrow to the right to the oval figure that contains the words GO TO NEXT TRAINING MODULE (# 2).

#### Training Assessment

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-			<u>-</u> -	<del></del>	
		PRACTICE	Z/EVA	LUATION FORM	
		INSTRUCTOR		<u>TC</u>	
		BEGIN EXERCISE:			GO NO GO
	1.	safety in "F", cupola	1.	Sets gun safety switch to "OFF".	
		power switch in ON, and gun safety switch in "ON", announce "CLEAR THE	2.	Sets cupola power switch to "OFF".	
`   		M85 MACHINEGUN," and observe performance (Steps 1-9).	3.	Sets machine gun safety to "S".	
.	•		•		ţ
П	•		•		
۱	•		•		
	2.	Score total performance.	9.	Closes cover and cradle access door	
				•	
					ļ
1	İ				
		GO [		NO GO	
1	}	<u> </u>			

This is on the back of a training module, and is used for both training and evaluation purposes. When demonstrating a task, it can be used as an instructional job aid or memory "jogger". When practicing a task, it can be used to direct the soldier's initial performance (as in the sample module) or to check-out the soldier's training progress.

The PRACTICE/EVALUATION FORM is self-explanatory. Whether for practice or evaluation purposes, follow the requirements under the title labelled INSTRUCTOR (for the GNR, DVR and LDR training modules, this title is labelled TC). Set-up the equipment conditions, instruct the soldier to perform the task, and observe the performance steps listed under the title TC. (Or GNR, DVR and LDR in their separate training modules). Simultaneously, check (X) whether the soldier (TC) performs each step correctly, "GO", or incorrectly, "NO GO". After the task is completed, check the appropriate GO or NO GO

boxes at the bottom center of the training module to score the soldier's overall or total performance.

To "pass" an evaluation a soldier should receive a GO on each of the individual performance steps. If in your judgment the error(s) or NO GOs are not critical and can be easily corrected without additional training, then feel free to "pass" the soldier. It's your decision. You establish the standards. If you are willing to go to combat with the men you have trained, then they are considered trained.

That's it. Since the training modules all follow the same format you should quickly get the "hang" of it. If you don't, simply refer back to this chapter and review the section(s) with which you are having difficulty.

#### CHAPTER 2

#### HOW TO TRAIN

This chapter provides you with some training techniques and guidance to help you prepare for and conduct performance oriented training. Learning how to apply these techniques when using the training materials will increase your effectiveness as a trainer.

#### PREPARE FOR TRAINING

To train a soldier to perform a task for the first time, you must know what you are talking about, be able to perform the task yourself, and be capable of handing off those task knowledges and skills to the soldier. The more you know about the task, the more the soldier being trained is going to know about the task, if you do your job right. The same holds true for the skill components of the task. However, the one quality that makes it all come together in the most effective and efficient manner is your ability to prepare for and conduct training.

To prepare for training, follow the training techniques and guidance presented below.

- Review the subject matter task. Obtain whatever training materials are available concerning the task and use them to learn all there is to know about the subject matter. Don't take the easy way out! The more materials you review, the more knowledgeable you will become about the task. Then, when debatable or questionable points surface during training, you can quickly support the correct position with facts. Moreover, you will be able to direct your men to the best training materials available for learning more about the task, whether for remedial self-instruction or job enrichment.
- Perform the task. Obtain whatever equipment is involved and perform the task yourself. Don't assume that you can perform a task if you have not performed it for some time. Tasks left unpracticed tend to be forgotten. The more difficult or complex the task procedure, the more likely this will occur, and in a shorter period of time. Performing the task will help you remember the procedures so that you can perform them correctly when required to do so during training. It will also help you remember specific teaching points that need special emphasis during training, and those "tricks of the trade" that you have gained over the years which can significantly improve the task performance of your men.
- Dry-run the training module. Not knowing how to train a task or simply doing it "off the top of your head," will seriously reduce your effectiveness as a trainer. Such "training" wastes time, permits errors to occur that interfere with learning, reduces learner motivation, and increases the risk of personal injury and/or equipment damage. Don't leave training to chance! Rehearse the training module so that you can introduce and demonstrate the task professionally. Learn how to conduct the practice session using the tools provided, and how to determine training success through performance evaluation.

#### CONDUCT THE TRAINING

To conduct training effectively you must understand what's taking place when you train someone. First, a person who is being trained is committing certain things to memory. For example, he memorizes the names and locations of specific controls, the steps in a procedure, the sequence in which those steps are performed, and the physical movements he must make to execute the task. If he does this well enough, then he can recall these things and use them to perform the task later on. Second, a person cannot be expected to perform a task to standard the very first time he attempts it. A person learns a little bit at a time. With each practice, he learns more, combines it with what he learned previously, and builds on his knowledge and skills.

To conduct training, follow the training techniques and guidance presented below.

- Introduce the task. Before you train, brief the soldier on what task will be trained, how it will occur, and what level of performance they must attain. This will give him an idea of what to expect. Keep the briefing short—two minutes at the most. Try to cover the following points:
  - State the task and training standards, in your own words.
  - Describe prerequisite tasks he should know to perform the tusk. Review the tasks if he needs the familiarization.
  - Describe what training materials, equipment, or other resources he will use during training.
  - Emphasize the appropriate safety warnings and the dangers he should be aware of when training.
  - Explain that you will conduct training by demonstrating the task, having him practice it, then evaluating his performance.
  - Provide enough information that he has a general idea of how training will occur and what's expected of him.
  - Ask for questions, addressing those you can answer briefly but defering those that can be answered during or after training.
- Demonstrate the task. This is where your knowledge and skill in performing the task becomes extremely important. It's also where what you do and how you do it affects the soldier's ability to learn the task. Each training module will contain specific instructions for demonstrating the task. Follow it and the training guidance presented below:
  - Explain what you are doing as you do it. Soldiers will learn more if you support your actions with words that describe clearly what you are doing.

- Make certain that you demonstrate the task from the soldier's viewpoint. It does no good if what you are doing cannot be seen by the soldier.
- Name and describe the pieces of equipment you are working with during the demonstration, even if he knows what they are. A brief description and purpose of each will help the soldier learn more effectively.
- Ask questions as you demonstrate the task to make the soldier think, not just sit there watching you.
- Repeat the total task performance without interruption to establish the standard you expected him to achieve as a result of training.
- Practice the task. Specific instructions are provided in each training module for practicing a task. Follow these instructions and the "crawl-walk-run" training technique presented below:

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- Guide the soldier's performance step by step. Work on part of the task rather than the whole task. Have him perform the task parts slowly and correctly as you provide the prompts and cues to direct his actions. When he learns a part or step, train him on another, until you have covered all the steps.
- Have the soldier perform the total task without regards to "time" standards and with cues/prompts when needed. As learning occurs, speed things up. Remove all prompts and cues, but continue to reinforce correct performance until you achieve the training standards.
- Evaluate soldier performance. Although the soldier receives feedback while practicing the task, you still want to evaluate his performance under more formal, test-like conditions. He still needs to know how well he performs the task and where his strengths and weaknesses lie. Specific instructions for evaluating a soldiers performance on a task are presented in each training module. Follow its directions, and keep in mind the following guidance:
  - Soldiers who are learning a new task are not very good at evaluating their own performance. Someone must tell them what they are doing right and wrong. Mistakes can then be corrected and learning will occur.
  - Make feedback brief and specific. If errors are made, tell him what he did wrong and how to do it right. Show him and let him do it again, as time permits.
  - Don't be judgmental. Avoid the use of emotion-laden terms such as profanity or slang. These interfere with learning and are often counter-productive.

 Keep the evaluation impersonal. Talk about the task and what the soldier did correctly and incorrectly. Don't talk about the soldier. Talk instead about what he did that should not have been done.

Applying the training techniques and guidance presented in this chapter will make you a more effective and efficient trainer. How successful you become will depend not only on your ability to apply this information, but on your attitude towards training in general. In short, the more serious you are about training, the more effective you and your men will become.

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#### CHAPTER 3

#### HOW TO MANAGE TRAINING

This chapter provides you with a methodology for managing a rapid train-up program developed for M60A3 armor force mobilization or reconstitution. It also provides you with the supporting materials for assessing training needs, planning training remediation, and recording both individual and tank crew training progress.

#### PLANNING TRAINING

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LESSES CONTRACTOR DESIGNATION OF CONTRACTOR

The overall responsibility for individual skills training in the U.S. Army resides at the battalion level and below. Generally, personnel at the battalion level (S-3) support company level commanders' training activities by providing training resources and coordinating training activities among companies. The responsibility for actually conducting training is normally entrusted to company commanders who subsequently delegate the day-to-day training task to the lowest supervisory level i.e., tank commanders.

Several assumptions have been made about armor force mobilization or reconstitution training. First, it's assumed that the rapid train-up of armor and non-armor personnel will be managed at the company level. commanders, in coordination with the battalion (S-3) and platoon leaders, will schedule what, when, and where training is to take place. More importantly, they will provide the command emphasis and leadership required of commanders to instill an attitude of excellence among all personnel. ondly, training will be carried out by noncommissioned officer (NCO) personnel using basically the tank itself to get the job done. As other training resources become available (instructors, devices, training aids, facilities, etc.), they can be substituted to accomplish the training objectives. Lastly, when tank crews are reorganized to fill vacancies created by personnel turbulence or combat attrition, tank gunners will be trained-up for the tank commander position. Tank drivers or loaders, based on an assessment of their gunnery potential, will be trained-up as gunners. Loaders will be trained-up to fill vacated driver's positions and, if applicable, new or non-armor personnel will be trained as loaders. Since the loader's position is least critical within a tank crew, such inexperience will be less of a drawback in overall crew effectiveness.

#### Training Responsibility

Table 1 below depicts the rapid train-up responsibilities of instructional personnel by platoon crew positions. As shown, the company's master gunner is responsible for all tank commander training. The three NCO tank commanders within the platoon are then responsible for the separate group training of all gunners, loaders, and drivers. For example, one tank commander will train all four gunners, while another trains all four loaders. Which NCO tank commander trains what group is the platoon leader's decision, and should be based on the master gunner's assessment of each tank commander's individual expertise and training preference.

TABLE 1

Rapid Train-up Responsibilities of Instructional Personnel by Platoon Crew Positions

	Instructional Personnel							
Platoon	Master	NCO Tank Commanders						
Crew Positions	Gunner	1 2 3						
Tank Commander	X							
Gunner		X						
Loader		x						
Driver		x						

#### Training Needs Assessment

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Since tank commanders function as both trainer and trainee, the initial part of the rapid train-up program is dedicated to assessing their individual training needs. This assessment should be conducted by trained personnel who are themselves proficient in the task performances. Within a tank company this would most likely be the master gunner and platoon sergeants. To ensure that they are qualified, it is recommended that they test each other on each tank commander task and remediate training deficiencies, if any, before testing of tank commanders begins.

Table 2 below presents a test requirement decision matrix for determining tank commander training needs. As shown, not all tank commander task performances are tested. Prerequisite tasks, tasks which must be accomplished in order to perform higher-order tasks, may preclude additional task testing. For example, if the tank commander cannot perform task number one, a prerequisite task for performing task number two and three, then he would be tested next on task number four. In addition, all three task numbers would be identified (circled) as training needs.

TABLE 2

Test Requirement Decision Matrix for Determining Tank Commander Training Needs

Test Requirement (Module No.)					Training Need (circle)						
Test #1,2, then 3.	If TC NO GOs on any one of these tasks, test #4.	1	2	3							
Test #4,5,6, then 7.	If TC NO GOs on any one of these tasks, test #8.	4	5	6	7						
Test #8,9,10, then 11. (continued)	If TC NO GOs on any one of these tasks, test #14.	8	9	10	11						

If TC NO GOs on any one	12	13	14	
of these tasks, STOP.				
If TC NO GOs on any one	15	16		
of these tasks, test #18.				
If TC NO GOs on this task,	17			
test #18.				
If TC NO GOs on this task,	18			1
test #19.				
If TC NO GOs on this task,	19			
test #20				
If TC NO GOs on this task,	20			
test #21				
If TC NO GOs on this task,	21			
test #22				
If TC NO GOs on this task,	22			
STOP				
	of these tasks, STOP.  If TC NO GOs on any one of these tasks, test #18.  If TC NO GOs on this task, test #18.  If TC NO GOs on this task, test #19.  If TC NO GOs on this task, test #20  If TC NO GOs on this task, test #21  If TC NO GOs on this task, test #22  If TC NO GOs on this task,	of these tasks, STOP.  If TC NO GOs on any one 15  of these tasks, test #18.  If TC NO GOs on this task, 17  test #18.  If TC NO GOs on this task, 18  test #19.  If TC NO GOs on this task, 19  test #20  If TC NO GOs on this task, 20  test #21  If TC NO GOs on this task, 21  test #22  If TC NO GOs on this task, 21	of these tasks, STOP.  If TC NO GOs on any one 15 16 of these tasks, test #18.  If TC NO GOs on this task, 17 test #18.  If TC NO GOs on this task, 18 test #19.  If TC NO GOs on this task, 19 test #20  If TC NO GOs on this task, 20 test #21  If TC NO GOs on this task, 21 test #22  If TC NO GOs on this task, 21 test #22  If TC NO GOs on this task, 22	of these tasks, STOP.  If TC NO GOs on any one 15 16  of these tasks, test #18.  If TC NO GOs on this task, 17  test #18.  If TC NO GOs on this task, 18  test #19.  If TC NO GOs on this task, 19  test #20  If TC NO GOs on this task, 20  test #21  If TC NO GOs on this task, 21  test #22  If TC NO GOs on this task, 21  test #22  If TC NO GOs on this task, 22

The training needs of the tank gunners, drivers, and loaders within the platoon could be assessed in a similar manner. However, since they do not have a responsibility to conduct training, it's unnecessary. For mobilization or reconstitution, these crewmembers should be tested on a task and then provided immediate remedial instruction if they cannot perform it.

#### Training Remediation

In most cases, the pretesting of a task performance itself will provide the remedial type instruction necessary to train-up experienced tank commanders to an acceptable performance level. Where additional training is necessary, as in the case of gunners being trained-up for the position, training should be scheduled so that subject-matter related tasks are taught within a single block of instruction (See TABLE 3). Also, tank commanders who have successfully performed all job tasks should be used to peer-instruct those tank commanders who require additional training. Whenever possible, master gunner or platoon sergeant personnel should be used to train-up platoon leaders.

TABLE 3

Tank Commander Training Syllabus

Block of Instruction	Tasks	Training Module No
• M85 Machinegun	Clear, Install, Load, Boresight, Prep-to-fire, Remove.	1,2,5,6, 7,21.
• M36E1 Periscope	Remove-Install.	3.
• Cdr's Station	Prepare, Power-down, Secure.	4,22.
	14	

• Laser Rangefinder Self-test, Logic-test, Firing test, 8,9,10,11 Boresight, Operate, Multiple Returns. 12,13.

• Fire Commands Issue, Subsequent. 14,15.

• Target Engagements Prep-to-fire, Direct-Normal Mode, 16,17,18, Engage from Cdr's Station, Range 19,20. Card, M85.

After tank commanders are trained and qualified in their duty position, the remainder of the rapid train-up time is used to train tank gunners, drivers, and loaders in their respective duty positions. This training should be conducted by individual NCO tank commanders using the training modules and the how-to-train techniques and guidance presented in chapters 1 and 2.

Since all personnel cannot be trained simultaneously, it is recommended that tank commanders train-up the more experienced soldiers in the crew position first. The remaining soldiers should monitor the training, mentally rehearsing the task performance, so that they can be better prepared to perform it when being trained. For example, gunners trained-up on a task should be used to prepare the new or inexperienced gunners to perform the task. This "coaching along the sidelines" will significantly reduce the amount of training time required to train-up crewmembers in their duty positions. It will also provide the amount of overlearning that increases task proficiency and enhances retention for both "coach" and "player."

#### CONTROLLING TRAINING

Controlling the training process ensures that the goals established for the rapid train-up program are being achieved, and if they are not, that immediate corrective actions can be taken to do so. Performance assessment and program monitoring are two ways to control training. Performance assessment evaluates the level of task proficiency being achieved by tank crewmembers, while program monitoring continuously evaluates the training efficiency of the overall program. Combined they provide both training developers and management personnel with the data needed to maintain and improve the quality of training.

#### Performance Assessment

Performance assessment is the responsibility of the master gunner or NCO tank commander conducting the rapid train-up of tank crewmembers. As designed, each trainer establishes the level of proficiency required for each task. This approach is based on the rationale that neither the trainer nor the soldier being trained will intentionally avoid being fully prepared for combat. For that reason, no additional testing for quality controlling training is considered necessary.

To assess performance, it is recommended that the following actions be taken by the platoon leader on a daily basis.

- (a) Have each tank commander provide you with information on who was trained and on what tasks.
- (b) Record these data on the attached Platoon Training Record (Appendix E) and continuously update it as training progresses.
- (c) Monitor tank crewmember training to verify and maintain adherence to the rapid train-up program, and provide training guidance.
- (d) Determine what changes, if any, are required to improve the training and management of the program, and present them to your company commander.

#### Program Monitoring

Program monitoring ensures that the rapid train-up taking place in the unit is both effective and efficient. Tank crews must be observed to evaluate training success, identify potential problems or additional training needs, and determine what changes or improvements, if any, can be made in the training process.

To accomplish this effort, it is recommended that the following actions be taken by the company commander and master gunner every other day.

- (a) Randomly select at least two tank crews from each tank platoon in the company to verify the training results reported on the Platoon Training Record (Appendix E).
- (b) Select six different task performances on which various tank crewmembers have been successfully trained.
- (c) Obtain the training modules developed for these six tasks and, using the appropriate Practice/Evaluation Forms, have each crewmember demonstrate his task proficiency.
- (d) Gross deviations in task proficiency is indicative of "something very wrong." Meet immediately with the respective platoon leaders and determine what is wrong and what corrective measures are necessary to remedy the problem.

#### APPENDIX A

## TANK COMMANDER TASKS COVERED IN TRAINING MODULES

Module No.	Task	Check When Completed	Date
1	Clear the M85 Machinegun.	<u></u>	<u> </u>
2	Install M85 Machinegun.		
3	Remove/Install M36E1 Periscope, Daylight Body, and Passive Elbow.		
4	Prepare Station for Operation.		
. 5	Load the M85 Machinegun.		
6	Boresight M85 Machinegun & M36E1 Periscope.		
7	Perform M85 Machinegun Prepare-to-Fire Checks.		
8	Conduct LRF Self Test.		
9	Conduct LRF Logic Test.		
10	Conduct LRF Firing Test.		
11	Boresight the LRF.	· · ·	
12	Operate the LRF.		
13	Respond to Multiple Range Keturns.	<del></del>	
14	Issue Fire Commands.		
15	Issue Subsequent Fire Commands.		
16	Perform Prepare-to-Fire Checks.	·	
17	Direct Main Gun Engagements-Normal Mode.		
18	Engage Main Gun Targets from TC Station.		
19	Direct Main Gun Engagement Using Range Card Data	a	
20	Engage Targets with M85 Machinegun.		
21	Remove the M85 Machinegun.		
22	Power Down and Secure Tank Commander's Station.		

#### APPENDIX B

## GUNNER TASKS COVERED IN TRAINING MODULES

Module No.	Task	Check When Completed	Date
1	Operate M28E2 Azimuth Indicator.		
2	Operate M1A1 Gunner's Quadrant.		
3	Test and Adjust M13A3 Elevation Quadrant.	<del></del>	
4	Perform a Zero Pressure Check.		
. 5	Place the TTS into Operation.		
6	Perform a Computer Self-test.		
7	Prepare to Boresight the 105-MM Main Gun with M26 Muzzle Boresight Device.		
8	Boresight Daylight Channels of TTS.		
9	Adjust/Refer Thermal Channel of TTS for Boresight.		
10	Adjust/Refer M105D Telescope for Boresight.		
11	Apply Computer Correction Factors.	··	
12	Perform Prepare-to-Fire-Checks.		
13	Track Targets Using the Power Control Handles.		
14	Apply Auto and Manual Lead.		
15	Engage Stationary Main Gun Targets in Normal Mode.	·	
16	Engage Moving Main Gun Targets in Normal Mode.		
17	Engage Main Gun Target Using the M105D Telescope	•	
18	Adjust Fire for Main Gun Engagements.		
19	Perform Main Gun Misfire Procedures.		
20	Power Down and Secure Gunner's Station.		

#### APPENDIX C

## DRIVERS TASKS COVERED IN TRAINING MODULES

Module No.	Task	Check When Completed	Date
1	Perform Before/During/After Operation PMCS.		
2	Drive Tank Across Varied Terrain.		
3	Perform Hull Down/Turret Down Movement.		
4	Drive Tank Using Cover and Concealment.		
. 5	Drive Tank in Stabilized Mode.	<del></del>	
6	Maneuver Tank Using Smoke Generator.		
7	Drive Tank Using Evasive Action Techniques.		
8	Install Night Vision Device AN/VVS-2.		
9	Place AN/VVS-2 Night Vision Device into Operation.		
10	Drive the Tank at Night Using AN/VVS-2 Night Vision Device.		
11	Remove and Stow the AN/VVS-2 Night Vision Device	•	

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#### APPENDIX D

## LOADER TASKS COVERED IN TRAINING MODULES

		Check	
Module		When	
No.	Task	Completed	Date
1	Identify Friendly and Threat (OPFOR) Vehicles.		
2	Acquire Targets.		
3	Operate Tank Intercom Set 2298/VRC.		
4	Identify Main Gun Ammunition.		· · · · · · · · · · · · · · · · · · ·
5	Operate Ammo Stowage Racks.		
6	Stow Main Gun and Coax Ammunition.		
. 7	Open/Close 105-mm Main Gun Breech Manually.		
8	Load/Unload the 105-mm Main Gun.		
9	Apply Loader Misfire Procedures to 105-mm Main		
	Gun.		
10	Responding to Battlesight Fire Commands.		
11	Respond to Precision Fire Commands Requiring		
	a First round Ammo Change.		<del></del>
12	Respond to Precision Fire Commands Requiring		
	a Second Round Ammo Change.		
13	Load the M240 7.62-mm Coax Machinegun.	٠.	
14	Clear the M240 7.62-mm Coax Machinegun.		
15	Mount/Dismount the M240 7.62-mm Coax Machinegun	•	
16	Boresight the M240 7.62-mm Coax Machinegun.		
17	Take Immediate Action on M240 7.62-mm Coax		
	Machinegun Stoppage.		<del></del>
18	Disassemble/Assemble M240 7.62-mm Coax		
	Machinegun.	·	
19	Perform Loader's Prepare-to-Fire Checks.		
20	Perform Before/During/After Operation PMCS.		····
21	Remove/Install 105-mm Main Gun Breechblock.		
22	Disassemble/Assemble the 105-mm Main Gun		
	Breechblock.		
23	Put on and Wear the M25A1 Protective Mask.		
24	Operate the Gas-Particulate Filter Unit.		

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#### APPENDIX E

### Platoon Training Record Instructions

#### 1. ADMINISTRATIVE

- a. Complete the information requested at top of training record.
- b. Identify the tank number and print the names of each tank crewmember in the crew.
  - c. Repeat step b for all tank crews.

#### 2. PRETEST

- a. Draw a diagonal line in a Training (Task) Module box ( ) after the pretest has been administered to a tank crewmember.
- b. If the crewmember "passed" the pretest, color in the upper half of green
  the box ( ) using a green pencil or ink to highlight "GO" result.
- c. If the crewmember "failed" the pretest, color in the bottom half of the box ( red ) using a red pencil or ink to highlight "NO GO" result.

#### 3. TRAINING/REMEDIATION

- a. After a crewmember has been trained to standard, color in the upper half of the box ( red ) using a green pencil or ink to highlight "GO" result
- b. When a tank crewmember has successfully completed training, color in the box under the word TOTAL using a green pencil or ink to highlight the crew's training readiness status.

PLATOON TRAINING RECORD

		Total																
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PART 2

TRAINER'S GUIDE

#### TRAINER'S GUIDE

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A RAPID TRAIN-UP PROGRAM
FOR M60A3 ARMOR FORCE MOBILIZATION
OR RECONSTITUTION

Prepared by:
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the Behavioral and Social Sciences
Ft Knox Field Unit
Ft Knox, Kentucky 40121

September, 1984

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#### INTRODUCTION

One of the most important responsibilities of non-commissioned officers (NCOs) during force mobilization or reconstitution is to rapidly prepare soldiers to perform their jobs to the highest possible standards. To accomplish this task NCOs must know how to train effectively and efficiently, i.e., to produce the most qualified men with the least amount of time and resources. This training program and guide for conducting rapid train-up will help you achieve this goal.

#### THE TRAINING PROGRAM

DESCRIPTION OF SERVING SERVING MODERN SERVING

This training program is designed primarily for training M60A3 armor crewmembers during a rapid train-up period, that is, force mobilization or reconstitution; a time when armor and non-armor personnel may be assigned to a new crew or job position. It also can be used for cross-training and sustainment training purposes.

When a tank crew is reorganized, the tank gunner will be trained-up for the tank commander's position. Tank commanders may select either the driver or loader to fill a vacated gunner's position, based on their personal assessment of each individual's gunner potential. The loader will be trained-up to fill the driver's position, and a new or non-armor soldier will be trained as a loader. This is the least critical position within a tank crew and such inexperience will be less of a draw back in overall crew effectiveness.

The rapid train-up program contains a total of 79 individual M60A3 armor tasks with separate training modules or units developed for each crew position. Each training module has five parts:

- TRAINING DESCRIPTION. This part describes who to train, what to train, where, and the time and resources needed by you to carry out the training.
- TRAINING PRETEST. This part presents a flow charted procedure that can be used to determine whether a task should be trained.
- TRAINING PRESCRIPTION. This part prescribes how to conduct training for a specific task. It tells you how to introduce the task for training, how to demonstrate it to the soldier, how to conduct the required practice, and how to determine training success through task evaluation.
- TRAINING PROGRESS. This part presents a flow charted procedure for controlling a soldier's progress through the training program.
- TRAINING ASSESSMENT. This part specifies the task detailing you will need for practicing and/or evaluating training success.

#### TRAINING MANAGEMENT

The rapid train-up program is managed at the company level by the company commander and platoon leader. Together, they will schedule what, when and where training is to take place. NCO tank commanders will conduct the training and evaluate soldier performance. In doing so, they will keep track (records) of who was trained and on what tasks, and provide that information on a regular basis to their platoon leader.

#### THE TRAINER'S GUIDE

#### **PURPOSE**

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The purpose of the trainer's guide is to (a) familiarize tank commanders (trainers) with the M60A3 rapid train-up program and (b) serve as a training reference document.

To familiarize yourself with the training program, carefully read Chapters 1-2. These chapters will describe the training modules and tell you how to prepare and conduct the training. Then review each crewmember's task inventory in Appendix A-D to identify the training tasks; tasks for which training modules were developed. After that, refer to the trainer's guide as often as necessary.

#### ORGANIZATION

The trainer's guide consists of two Chapters and four Appendices. The chapters contain descriptive and "how-to" information concerning training. The Appendices contains the training modules developed for each armor crew position. The contents of each Chapter and Appendix are described below.

Chapter 1, <u>Description of Training Modules</u>, introduces you to the training modules. It tells you what tasks are covered and how to use a training module.

Chapter 2, <u>How to Train</u>, describes how to prepare for and conduct training. It describes the performance—oriented training method, and provides training steps to help make you a better trainer.

Appendix A, Tank Commander Training Modules, lists the tasks to be trained, preferably by the master gunner for the TC position.

Appendix B, Tank Gunner Training Modules, lists the tasks to be trained by the tank commander for the gunner position.

Appendix C, Tank Driver Training Modules, lists the tasks to be trained by the tank commander for the griver position.

Appendix D, Tank Loader Training Modules, lists the tasks to be trained by the tank commander for the loader position.

#### CHAPTER 1

#### DESCRIPTION OF TRAINING MODULES

This chapter describes the training modules developed for training tank commanders (TCs), gunners (GNRs), drivers (DVRs), and loaders (LDRs). It also describes the contents of a training module and how to use it.

#### TASKS COVERED BY TRAINING MODULES

Separate training modules have been developed for training TC, GNR, LDR, and DVR tasks. The tasks covered by TC training modules are listed in Appendix A, Table A-1, Tasks covered by GNR, LDR, and DVR training modules are listed in Appendix A, Table A-2, A-3, and A-4 respectively. Collectively, these tasks represent the basic skills required by M60A3 armor crewmen to engage and defeat the enemy.

The number of task that can be trained during force mobilization or reconstitution will vary depending on each unit's personnel training needs and amount of available training time and resources. Nevertheless, the order in which the tasks are listed in the tables should be the order in which they are trained. On inspection, you will find that those tasks presented at the top of each table contain the knowledges and skills that a soldier must possess to perform all subsequent tasks.

#### HOW TO USE A TRAINING MODULE

Each training module consists of a single page. The front side presents the administrative and training requirements, the pretest procedure, the training prescription, and the training progress decision flow chart. The back side contains the task details needed for practice and evaluation.

To teach you how to use a training module, we will use TRAINING MODULE NO. 1 developed for the tank commander. Since the format of all training modules is the same, you should have no difficulty in using those developed for all other tasks.

## Training Description

CREW POSITION: TAI	NK COMMANDER	TRAINING MODULE NO: 1
TASK: CLEAR THE ME	35 MACHINEGUN.	TIME: 10 MINUTES
PREREQUISITE TASKS	: NONE.	
TRAINING REFERENCES	S: TM 9-2350-253-10;	TM 9-1005-231-10.
SUPPORT REQUIREMENT	rs: 1 M85 MACHINEGUN	: 1 BELT OF CALIBER .50
	DUMMY AMMO (10 F	ROUNDS).

This is the first section on the front side of a training module. It is used to describe both administrative and training requirements. Starting with the first line at the top left are the words CREW POSITION. This tells you for whom the module is intended. This will be either the Tank Commander, Gunner, Driver, or Loader. In this sample module it is TANK COMMANDER.

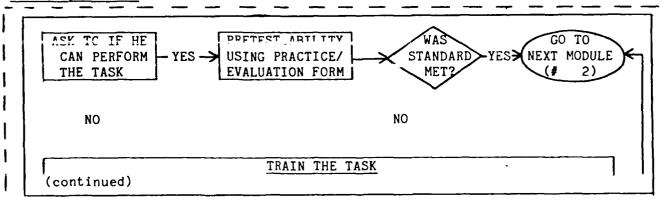
Straight across from CREW POSITION is the number of the training module: TRAINING MODULE NO: 1. This number simply helps keep track of the 22 separate modules developed for the TC position. The second line contains the title of the TASK and the TIME allocated to train it. In this sample module the TC will be trained to CLEAR THE M85 MACHINEGUN. The time allowed to train the task is 10 minutes.

The next line contains the title PREREQUISITE TASKS. These are tasks that should be trained prior to training on the present module. In this sample module there are NONE.

The fourth line contains a listing of TRAINING REFERENCES (literature, tapes, film, etc.) that describe how to perform the task. In the sample module, two Training Manuals (TMs) are cited; TM 9-2350-253-10 and TM 9-1005-231-10.

The last line in the training description specifies the SUPPORT REQUIRE-MENTS (equipment, materials, ranges, etc.) needed for conducting the training. The sample module requires an M85 machinegun, and a 10 round belt of .50 caliber dummy ammunition.

#### Training Pretest



This section of a training module is used to determine whether there is a need for training. To make this decision, start with the first box on the left that contains the words ASK TC IF HE CAN PERFORM THE TASK. If the TC answers "NO", then follow the arrow down to the box that contains the words TRAIN THE TASK. (How to do that is covered in the next section). If the TC answers "YES", then follow the arrow to the right to the box that contains the words PRETEST ABILITY USING PRACTICE/EVALUATION FORM. Even though he says he can do it, you need to pretest him because people commonly overestimate their ability to perform tasks. (How to do that is covered in the last section). After giving the pretest go to the diamond figure to the right of the pretest box and answer the question "WAS STANDARD MET?" If the

answer is "NO", follow the arrow down to the box that contains the words TRAIN THE TASK. If the answer is "YES", follow the arrow to the right to the oval figure that contains the words GO TO NEXT MODULE (# 2). In short, if the TC says he can perform the task and "passes" the pretest, there is no need to train him in that task.

## Training Prescription

#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- Emphasize safety requirements (warnings).

#### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Place the M85 safety in "S" position (dummy ammo loaded).
- Walk through the clearing procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for clearing the M85 machinegun, without interruption.

## PRACTICE

- 1. Have the TC perform each step in clearing the M85 procedure as you announce them (use Practice/Evaluation form).
- 2. Provide prompts/dues to guide performance while reinforcing correct responses.
- 3. Critique performance while reinforcing correct responses.
- 4. Have the TC clear the M85 Machinegun, without prompting.
- 5. Repeat Steps 1-4 until satisfied with TC's performance.

#### | EVALUATE |

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Clears the M85 Machinegun correctly and without delay.

#### (continued)

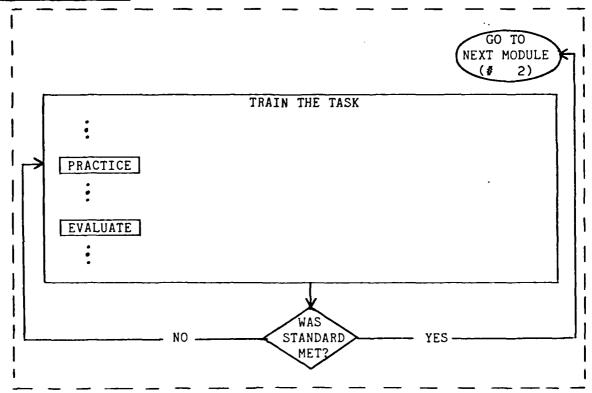
This section, which is on the front side of a training module, is used for conducting performance oriented training. To begin training, start with the box labeled INTRODUCE. In this sample training module, state the training requirement (step 1) and emphasize safety regulations (step 2). Do this in your own words, adding whatever additional comments, remarks, or descriptions you think would best introduce the training that will take place. If necessary ask questions to ensure the soldier (TC) understands what and how training is to be conducted.

Next, go to the box labelled DEMONSTRATE. This describes how to demonstrate the task. It doesn't tell you how to perform the task. How to perform the task is shown on the PRACTICE/EVALUATION FORM (this is covered in the last section). It is always assumed that the person conducting the training knows how to perform the task. In the DEMONSTRATION component, you are told how to prepare yourself and the TC (step 1), how to set up the equipment (step 2), and how to demonstrate the task using the crawl-walk-run training approach (steps 3-4).

After demonstrating the task to the soldier (TC), you should proceed to the box labelled PRACTICE. This lists how the practice is best conducted. In the sample training module you are told to have the soldier (TC) perform each task step as you announce them (step 1), provide prompts/cues to guide his performance (step 2), critique and reinforce correct responses (step 3), have the TC perform the task without prompting (step 4), and to repeat the procedure until you're satisfied with his performance.

The last phase in conducting training is identified by the box labeled EVALUATE. The evaluation is the soldier's final examination on the task. In carrying out this phase of training you will always inform the soldier (TC) on how the evaluation will be conducted and the testing standard (step 1). Do this in your own words. To begin testing, follow the procedure shown on the PRACTICE/EVALUATION FORM (step 2). After the evaluation, determine whether or not the soldier (TC) met the test standard (step 3).

#### Training Progress



This final section on the front of a training module controls the soldier's progress through the training program. To begin, follow the arrow down to the diamond figure and answer the question "WAS THE STANDARD MET?". If the answer is "NO", follow the arrow to the left to the box inside the TRAIN THE TASK section that contains the word PRACTICE and resume training. If the answer is "YES", follow the arrow to the right to the oval figure that contains the words GO TO NEXT TRAINING MODULE (# 2).

#### Training Assessment

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Control Control Control Control

	PRACTICE	E/EV	ALUATION FORM
	INSTRUCTOR		<u>TC</u>
	BEGIN EXERCISE:		GO NO GO
1.	With the M85 machinegun safety in "F", cupola	1.	Sets gun safety switch to "OFF".
	power switch in ON, and gun safety switch in "ON", announce "CLEAR THE	2.	Sets cupola powerswitch to "OFF".
	M85 MACHINEGUN, and observe performance (Steps 1-9).	3.	Sets machine gun safety to "S".
•		•	
•		•	
2.	Score total performance.	9.	Closes cover and
	GO [		NO GO

This is on the back of a training module, and is used for both training and evaluation purposes. When demonstrating a task, it can be used as an instructional job aid or memory "jogger". When practicing a task, it can be used to direct the soldier's initial performance (as in the sample module) or to check-out the soldier's training progress.

The PRACTICE/EVALUATION FORM is self-explanatory. Whether for practice or evaluation purposes, follow the requirements under the title labelled INSTRUCTOR (for the GNR, DVR and LDR training modules, this title is labelled TC). Set-up the equipment conditions, instruct the soldier to perform the task, and observe the performance steps listed under the title TC. (Or GNR, DVR and LDR in their separate training modules). Simultaneously, check (X) whether the soldier (TC) performs each step correctly, "GO", or incorrectly, "NO GO". After the task is completed, check the appropriate GO or NO GO

boxes at the bottom center of the training module to score the soldier's overall or total performance.

To "pass" an evaluation a soldier should receive a GO on each of the individual performance steps. If in your judgment the error(s) or NO GOs are not critical and can be easily corrected without additional training, then feel free to "pass" the soldier. It's your decision. You establish the standards. If you are willing to go to combat with the men you have trained, then they are considered trained.

That's it. Since the training modules all follow the same format you should quickly get the "hang" of it. If you don't, simply refer back to this chapter and review the section(s) with which you are having difficulty.

#### CHAPTER 2

#### HOW TO TRAIN

This chapter provides you with some training techniques and guidance to help you prepare for and conduct performance oriented training. Learning how to apply these techniques when using the training materials will increase your effectiveness as a trainer.

#### PREPARE FOR TRAINING

To train a soldier to perform a task for the first time, you must know what you are talking about, be able to perform the task yourself, and be capable of handing off those task knowledges and skills to the soldier. The more you know about the task, the more the soldier being trained is going to know about the task, if you do your job right. The same holds true for the skill components of the task. However, the one quality that makes it all come together in the most effective and efficient manner is your ability to prepare for and conduct training.

To prepare for training, follow the training techniques and guidance presented below.

- Review the subject matter task. Obtain whatever training materials are available concerning the task and use them to learn all there is to know about the subject matter. Don't take the easy way out! The more materials you review, the more knowledgeable you will become about the task. Then, when debatable or questionable points surface during training, you can quickly support the correct position with facts. Moreover, you will be able to direct your men to the best training materials available for learning more about the task, whether for remedial self-instruction or job enrichment.
- Perform the task. Obtain whatever equipment is involved and perform the task yourself. Don't assume that you can perform a task if you have not performed it for some time. Tasks left unpracticed tend to be forgotten. The more difficult or complex the task procedure, the more likely this will occur, and in a shorter period of time. Performing the task will help you remember the procedures so that you can perform them correctly when required to do so during training. It will also help you remember specific teaching points that need special emphasis during training, and those "tricks of the trade" that you have gained over the years which can significantly improve the task performance of your men.
- <u>Ory-run</u> the training module. Not knowing how to train a task or simply doing it "off the top of your head," will seriously reduce your effectiveness as a trainer. Such "training" wastes time, permits errors to occur that interfere with learning, reduces learner motivation, and increases the risk of personal injury and/or equipment damage. Don't leave training to chance! Rehearse the training module so that you can introduce and demonstrate the task professionally. Learn how to conduct the practice session using the tools provided, and how to determine training success through performance evaluation.

#### CONDUCT THE TRAINING

To conduct training effectively you must understand what's taking place when you train someone. First, a person who is being trained is committing certain things to memory. For example, he memorizes the names and locations of specific controls, the steps in a procedure, the sequence in which those steps are performed, and the physical movements he must make to execute the task. If he does this well enough, then he can recall these things and use them to perform the task later on. Second, a person cannot be expected to perform a task to standard the very first time he attempts it. A person learns a little bit at a time. With each practice, he learns more, combines it with what he learned previously, and builds on his knowledge and skills.

To conduct training, follow the training techniques and guidance presented below.

- Introduce the task. Before you train, brief the soldier on what task will be trained, how it will occur, and what level of performance they must attain. This will give him an idea of what to expect. Keep the briefing short—two minutes at the most. Try to cover the following points:
  - State the task and training standards, in your own words.
  - Describe prerequisite tasks he should know to perform the task. Review the tasks if he needs the familiarization.
  - Describe what training materials, equipment, or other resources he will use during training.
  - Emphasize the appropriate safety warnings and the dangers he should be aware of when training.
  - Explain that you will conduct training by demonstrating the task, having him practice it, then evaluating his performance.
  - Provide enough information that he has a general idea of how training will occur and what's expected of him.
  - Ask for questions, addressing those you can answer briefly but defering those that can be answered during or after training.
- Demonstrate the task. This is where your knowledge and skill in performing the task becomes extremely important. It's also where what you do and how you do it affects the soldier's ability to learn the task. Each training module will contain specific instructions for demonstrating the task. Follow it and the training guidance presented below:
  - Explain what you are doing as you do it. Soldiers will learn more if you support your actions with words that describe clearly what you are doing.

- Make certain that you demonstrate the task from the soldier's viewpoint. It does no good if what you are doing cannot be seen by the soldier.
- Name and describe the pieces of equipment you are working with during the demonstration, even if he knows what they are. A brief description and purpose of each will help the soldier learn more effectively.
- Ask questions as you demonstrate the task to make the soldier think, not just sit there watching you.
- Repeat the total task performance without interruption to establish the standard you expected him to achieve as a result of training.
- Practice the task. Specific instructions are provided in each training module for practicing a task. Follow these instructions and the "crawl-walk-run" training technique presented below:
  - Guide the soldier's performance step by step. Work on part of the task rather than the whole task. Have him perform the task parts slowly and correctly as you provide the prompts and cues to direct his actions. When he learns a part or step, train him on another, until you have covered all the steps.
  - Have the soldier perform the total task without regards to "time" standards and with cues/prompts when needed. As learning occurs, speed things up. Remove all prompts and cues, but continue to reinforce correct performance until you achieve the training standards.
- Evaluate soldier performance. Although the soldier receives feedback while practicing the task, you still want to evaluate his performance under more formal, test-like conditions. He still needs to know how well he performs the task and where his strengths and weaknesses lie. Specific instructions for evaluating a soldiers performance on a task are presented in each training module. Follow its directions, and keep in mind the following guidance:
  - Soldiers who are learning a new task are not very good at evaluating their own performance. Someone must tell them what they are doing right and wrong. Mistakes can then be corrected and learning will occur.
  - Make feedback brief and specific. If errors are made, tell him what he did wrong and how to do it right. Show him and let him do it again, as time permits.
  - Don't be judgmental. Avoid the use of emotion-laden terms such as profanity or slang. These interfere with learning and are often counter-productive.

• Keep the evaluation impersonal. Talk about the task and what the soldier did correctly and incorrectly. Don't talk about the soldier. Talk instead about what he did that should not have been done.

Applying the training techniques and guidance presented in this chapter will make you a more effective and efficient trainer. How successful you become will depend not only on your ability to apply this information, but on your attitude towards training in general. In short, the more serious you are about training, the more effective you and your men will become.

## APPENDIX A

# TANK COMMANDER TASKS COVERED IN TRAINING MODULES

Module No	Task	Check When Completed	Date
1	Clear the M85 Machinegun.		
2	Install M85 Machinegun.		
3	Remove/Install M36E1 Periscope, Daylight Body, and Passive Elbow.		
4	Prepare Station for Operation.		
5	Load the M85 Machinegun.		
6	Boresight M85 Machinegun & M36E1 Periscope.		
7	Perform M85 Machinegun Prepare-to-Fire Checks.		
8	Conduct LRF Self Test.		
9	Conduct LRF Logic Test.		
10	Conduct LRF Firing Test.		
11	Boresight the LRF.	···	
12	Operate the LRF.		
13	Respond to Multiple Range Returns.		
14	Issue Fire Commands.		
15	Issue Subsequent Fire Commands.		
16	Perform Prepare-to-Fire Checks.	<del></del> .	
17	Direct Main Gun Engagements-Normal Mode.		<del></del>
18	Engage Main Gun Targets from TC Station.		
19	Direct Main Gun Engagement Using Range Card Dat	a	
20	Engage Targets with M85 Machinegun.		
21	Remove the M85 Machinegun.		
22	Power Down and Secure Tank Commander's Station.		,

## APPENDIX B

# GUNNER TASKS COVERED IN TRAINING MODULES

Module No.	Task	Check When Completed	Date
1	Operate M28E2 Azimuth Indicator.		
2	Operate M1A1 Gunner's Quadrant.		
3	Test and Adjust M13A3 Elevation Quadrant.		
4	Perform a Zero Pressure Check.		
5	Place the TTS into Operation.		
6	Perform a Computer Self-test.		
7	Prepare to Boresight the 105-MM Main Gun with M26 Muzzle Boresight Device.		
8	Boresight Daylight Channels of TTS.		
9	Adjust/Refer Thermal Channel of TTS for Boresight.		
10	Adjust/Refer M105D Telescope for Boresight.		
11	Apply Computer Correction Factors.	· ·	
12	Perform Prepare-to-Fire-Checks.		
13	Track Targets Using the Power Control Handles.		
14	Apply Auto and Manual Lead.		<u></u>
15	Engage Stationary Main Gun Targets in Normal Mode.		
16	Engage Moving Main Gun Targets in Normal Mode.		
17	Engage Main Gun Target Using the M105D Telescope	·	
18	Adjust Fire for Main Gun Engagements.		
19	Perform Main Gun Misfire Procedures.		-
20	Power Down and Secure Gunner's Station.		

## APPENDIX C

## DRIVERS TASKS COVERED IN TRAINING MODULES

Module No.	Task	Check When Completed	<u>Date</u>
1	Perform Before/During/After Operation PMCS.		
2	Drive Tank Across Varied Terrain.		
3	Perform Hull Down/Turret Down Movement.		
4	Drive Tank Using Cover and Concealment.		
5	Drive Tank in Stabilized Mode.		
6	Maneuver Tank Using Smoke Generator.		
7	Drive Tank Using Evasive Action Techniques.		
8	Install Night Vision Device AN/VVS-2.		
9	Place AN/VVS-2 Night Vision Device into Operation.		
10	Drive the Tank at Night Using AN/VVS-2 Night Vision Device.	<del></del>	
11	Remove and Stow the AN/VVS-2 Night Vision Device	·	

#### APPENDIX D

# LOADER TASKS COVERED IN TRAINING MODULES

Check Module When No. Task Completed Date 1 Identify Friendly and Threat (OPFOR) Vehicles. 2 Acquire Targets. 3 Operate Tank Intercom Set 2298/VRC. 4 Identify Main Gun Ammunition. 5 Operate Ammo Stowage Racks. 6 Stow Main Gun and Coax Ammunition. 7 Open/Close 105-mm Main Gun Breech Manually. 8 Load/Unload the 105-mm Main Gun. 9 Apply Loader Misfire Procedures to 105-mm Main Gun. Responding to Battlesight Fire Commands. 10 11 Respond to Precision Fire Commands Requiring a First round Ammo Change. 12 Respond to Precision Fire Commands Requiring a Second Round Ammo Change. 13 Load the M240 7.62-mm Coax Machinegun. 14 Clear the M240 7.62-mm Coax Machinegun. 15 Mount/Dismount the M240 7.62-mm Coax Machinegun. 16 Boresight the M240 7.62-mm Coax Machinegun. 17 Take Immediate Action on M240 7.62-mm Coax Machinegun Stoppage. Disassemble/Assemble M240 7.62-mm Coax 18 Machinegun. 19 Perform Loader's Prepare-to-Fire Checks. 20 Perform Before/During/After Operation PMCS. 21 Remove/Install 105-mm Main Gun Breechblock. 22 Disassemble/Assemble the 105-mm Main Gun Breechblock. Put on and Wear the M25A1 Protective Mask. 23 24 Operate the Gas-Particulate Filter Unit.

PART 3

TANK COMMANDER TRAINING MODULES

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Module No.	Task	Page No.
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2	Install N85 Machinegun.	3
3	Remove/Install M36E1 Periscope, Daylight Body, and Passive Elbow.	5
4	Prepare Station for Operation.	7
5	Load the M85 Machinegun.	9
6	Boresight M85 Machinegum & M36E1 Periscope.	11
7	Perform M85 Machinegun Prepare-to-Fire Checks.	13
8	Conduct LRF Self Test.	<b>1</b> 5
9	Conduct LRF Logic Test.	17
10	Conduct LRF Firing Test.	19
11	Boresight the LRF.	21
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14	Issue Fire Commands.	27
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17	Direct Main Gun Engagements-Mormal Mode.	- 33
18	Engage Main Gun Targets from TC Station.	35
19	Direct Main Gun Engagement Using Range Card Data.	37
20	Engage Targets with 1185 Hachinegun.	39
21	Remove the85 Machinegum.	41
22	Power Down and Secure Tank Cormander's Station.	43
ATTAC	HMENT (BATTLEFIELD SCENARIOS)	45

TRAINING MODULE NO: TIME: 10 MINUTES

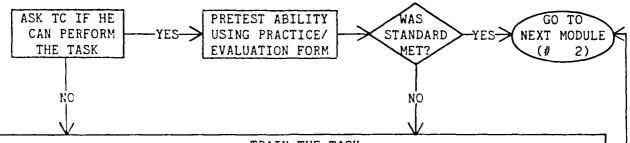
CLEAR THE M85 MACHINEGUN.

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10; TM 9-1005-231-10.

SUPPORT REQUIREMENTS: 1 M85 MACHINEGUN; 1 BELT OF CALIBER .50

DUMMY AMMO (10 ROUNDS).



## TRAIN THE TASK

## INTRODUCE

- State performance task and training standards in your own words.
- 2. Emphasize safety requirements (warnings).

## DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Place the M85 safety in "S" position (dummy ammo loaded).
- 3. Walk through the clearing procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for clearing the M85 machinegun, without interruption.

## PRACTICE

- 1. Have the TC perform each step in clearing the M85 procedure as you announce them (use Practice/Evaluation form).
- 2. Provide prompts/cues to guide performance.

NO.

- 3. Critique performance while reinforcing correct responses.
- 4. Have the TC clear the M85 Machinegun, without prompting.
- 5. Repeat Steps 1-4 until satisfied with TC's performance.

## EVALUATE

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Clears the M85 Machinegun correctly and without delay.

WAS STANDARD YES-

	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	With the M85 machinegun safety in "F", cupola power switch in ON, and gun	1.	Sets gun safety switch to "OFF".		
	safety switch in "ON", announce "CLEAR THE M85 MACHINEGUN," and	2.	Sets cupola power switch to "OFF".		
	observe performance (Steps 1-9).	3.	Sets machine gun safety to "S".		
		4.	Opens cradle access door and secures with hold/close latch.		
		5.	Opens machinegun cover and removes ammunition.		
		6.	Places safety to "F", pulls bolt rearward, places safety to "S".		
		7.	Checks chamber for ammunition. Removes any chambered round.		
		8.	Sets safety to "F". Pulls charger handle to rear, holds, pulls manual trigger, and lets bolt go forward slowly.		
		9.	Closes cover and cradle access door.		
2.	Score total performance.			·	
	GO		NO GO		

TRAINING MODULE NO: 2

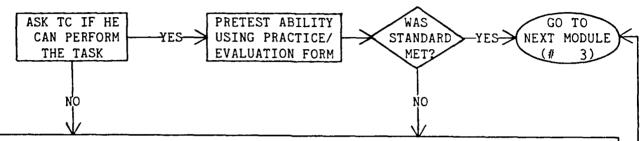
TASK: INSTALL M85 MACHINEGUN.

TIME: 30 MINUTES

PREREQUISITE TASKS: CLEAR THE M85 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; TM 9-1005-231-10.

SUPPORT REQUIREMENTS: 1 M60A3 OR TURRET TRAINER; 1 M85 MACHINEGUN.



## TRAIN THE TASK

## INTRODUCE

PARTIES STREET PROBLEM CONTROL CONTROL

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements (warnings).

## DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- Clear the machinegun, noting that it is the first step in installation.
- 3. Walk through the installation procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for installing the M85 Machinegun, without interruption.

## PRACTICE

- 1. Have the TC perform each step in installing the M85 Machinegun as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance.

-NO

- 3. Critique performance while reinforcing correct responses.
- 4. Have the TC install the M85 Machinegun, without prompting.
- 5. Repeat Steps 1-4 until satisfied with TC's performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Installs the M85 Caliber .50 Machinegun correctly and without delay.

	INSTRUCTOR		<u>TC</u>	
	BEGIN EXERCISE:			GO NO GO
1.	Announce "INSTALL M85 CALIBER .50 MACHINEGUN,		Clears the machinegun.	
	and observe performance (Steps 1-9).	2.	Elevates machinegun cradle.	
		3.	Slides machinegun into cradle and secures with rear mounting pin.	
		4.	Disconnects clamp from adjusting arm and connects to hangar.	
		5.	Checks fixed feed chute attached to cradle is aligned with feedway of machinegun.	
		6.	Opens cradle access door, inserts barrel and rotates 1/4 turn.	
		7.	Attaches adjusting link assembly to periscope elevation adjustment arm.	
		8.	Connects solenoid lead connector to end plate.	
		9.	Installs deflection plate.	
2.	Score total performance	· •		
		GO	NO GO	

REMOVE/INSTALL M36E1 PERISCOPE.

TRAINING MODULE NO: TIME: 30 MINUTES

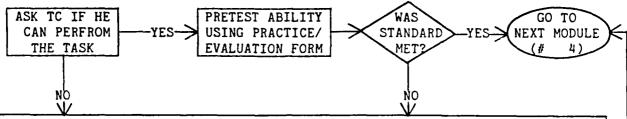
DAYLIGHT BODY, AND PASSIVE ELBOW.

PREREQUISITE TASKS: INSTALL M85 MACHINEGUN; CLEAR M85 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER:

1 M85 MACHINEGUN.



## TRAIN THE TASK

## INTRODUCE

- State performance task and training standards in your own words.
- Emphasize safety requirements (warnings).

## DEMONSTRATE

- 1. Position yourself in the TC seat with TC observing from outside hatch.
- 2. Clear the machinegun, pointing out that it is a prerequisite task.
- 3. Elevate M85 Machinegun to upper limit.
- 4. Walk-talk TC thru steps for removing M36E1 periscope body/passive elbow.
- 5. Walk-talk TC thru steps for installing M36E1 periscope body/passive elbow.
- 6. Repeat procedure for removing/installing the M36E1 periscope body and passive elbow, without interruption.

## PRACTICE

- 1. Have the TC perform each step in removing the M36E1 periscope and passive elbow as you announce them (use Practice/Evaluation Form).
- 2. Critique performance while reinforcing correct responses.
- 3. Repeat steps 1-2 for installing M36E1 periscope body/passive elbow.
- 4. Have the TC remove/install M36E1 periscope daylight body and passive elbow, without prompting.
- 5. Repeat Steps 1-4 until satisfied TC's with performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Removes the M36E1 periscope daylight body and installs M36E1 periscope daylight body and passive elbow correctly and without delay.



YES:

|--|

<u>TC</u>

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "REMOVE THE M36E1 PERISCOPE BODY AND PASSIVE	1.	Clears the machinegun.		
	ELBOW," and observe TC's		Elevates machinegun		
	performance (Steps 1-8).		to upper limit.		
		-	Disconnects quick-		
			disconnect clamp from elevation arm assembly		
			and connects to		
			stowage hanger.		
		4.	Disconnects electrical		
			connector from cupola.		
			Disconnects lamp		
			housing from daylight		
			body slot and connects		
		6.	to light source control. Disconnects M30 light	<u></u>	····
		0.	from passive elbow.	L	L
		7.	Supports passive		
		• -	elbow, releases front	L	<u> </u>
			and rear latches and		
		_	lowers elbow.		
		8.	Supports daylight		L
			body and releases		
			latches on both sides, lowers body from head.		
2.	Announce "INSTALL THE M36E1	9.	Clears the machinegun.		
-•	PERISCOPE DAYLIGHT BODY	,.			
	AND PASSIVE ELBOW," and	10.	Supports daylight body		
	observe TC's performance		and slides into head		
	(Steps 9-14).		assembly and engages		
		11.	front and rear latches. Supports passive elbow	<u></u>	
		11.	and slides into head	<b></b>	L
			assembly and engages		
			latches on both sides.	_	
		12.	Connects electrical		
			connector to cupola.		
		13.	Disconnects quick-		
			disconnect clamp from stowage hanger and		
			connects to elevation		
			arm assembly.		
3.	Announce "STOP", and score	14.	Connects M30 instrument		
	total task performance.		light to passive elbow.	<del></del>	
		<del>1</del>	WO CO []		
	GO L		NO GO		

TRAINING MODULE NO:

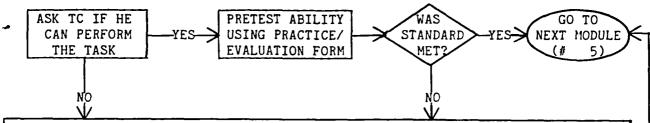
TASK: PREPARE STATION FOR OPERATION.

TIME: 15 MINUTES

PREREQUISITE TASKS: OPERATE THE CUPOLA. TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER:

1 CVC HELMET.



#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements (warnings).

## DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Announce "PREPARE STATION FOR OPERATION."
- 3. Walk-talk TC through each step (use Practice/Evaluation Form).
- 4. Highlight performance checks, e.g., on, off, bright, dim, etc.
- 5. Repeat preparing station for operation, without interruption.

## PRACTICE

- 1. Have the TC perform each step in preparing station for operation as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide TC performance; gradually remove.
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat Steps 1-3 until satisfied with TC performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Prepares station for operation correctly and without delay.

WAS STANDARD YES-

BEGIN EXERCISE:  Announce "PREPARE STATION 1. Checks vision blocks (clean, clear).  FOR OPERATION," and observe performance (Steps 1-10).  2. Secures cupola hatch.  3. Adjusts seat and platform.  4. Checks cupola for operation (rotates left, right).  5. Checks M85 mount for operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power switch to ON and gun	GO
FOR OPERATION," and observe performance (Steps 1-10).  2. Secures cupola hatch.  3. Adjusts seat and platform.  4. Checks cupola for operation (rotates left, right).  5. Checks M85 mount for operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power	
2. Secures cupola hatch.  3. Adjusts seat and platform.  4. Checks cupola for operation (rotates left, right).  5. Checks M85 mount for operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power	
platform.  4. Checks cupola for operation (rotates left, right).  5. Checks M85 mount for operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power	
operation (rotates left, right).  5. Checks M85 mount for operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power	
operation (elevates, depresses).  6. Places cupola azimuth lock in UP position.  7. Sets cupola power	
lock in UP position.  7. Sets cupola power	
safety switch to OFF.	
8. Checks operation of AM-1780/VRC intercom	
9. Adjusts LRF and TTS sights.	
2. Score total performance. 10. Adjusts M36E1 Periscope sight.	
<del></del>	

NO GO

TRAINING MODULE NO: 5

TASK: LOAD THE M85 MACHINEGUN.

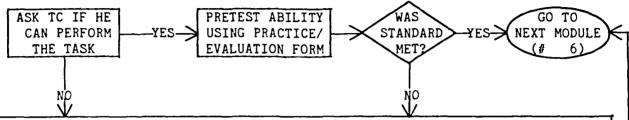
TIME: 10 MINUTES

PREREQUISITE TASKS: INSTALL M85 CAL .50 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; TM 9-1005-231-10.

SUPPORT REQUIREMENTS: 1 M85 MACHINEGUN; 1 BELT OF CALBIER .50

DUMMY AMMO (10 ROUNDS).



## TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions in handling M85 and ammunition.

## DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Place the M85 safety in "S" position (ammo nearby).
- Walk/talk TC through the loading procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for loading the M85 machinegun, without interruption.

## PRACTICE

- 1. Have the TC perform each step in loading the M85 machinegun as you announce them (use Practice/Evaluation Form).
- 2. Provide prompt/cues to guide performance.
- 3. Critique performance while reinforcing correct responses.
- 4. Have the TC load the M85 machinegun, without prompting.
- Repeat Steps 1-4 until satisfied with TC's performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- P. BEGIN EXERCISE as provided in the Practice/Evaluation Form.
- Test to Standard: Loads the M85 Machinegun correctly without delay.

WAS
STANDARD
YES-

TC

INSTRUCTOR	

	BEGIN EXERCISE:			GO	NO GO
1.	With safety in "F", an- nounce "LOAD THE M85 MACHINEGUN," and observe performance (Steps 1-7).	1.	Places safety in "S" position, unlatches and opens cover assembly. (Holds open with hold open latch on cradle access door).		
		2.	Pulls charger handle fully rearward.		
		3.	Keeps tension on charger handle, pulls trigger extension handle and allows bolt to close slowly.		
		4.	Places leading edge of belt on tray.		
		5.	Closes cover, sets safety to "F".		
		6.	Charges weapon.		
2.	Score total performance.	7.	Sets safety to "S".		
	GO F		NO GO		

CREW POSITION: TANK COMMANDER TRAINING MODULE NO:

TASK: BORESIGHT M85 MACHINEGUN & M36E1 PERISCOPE.TIME: 30 MINUTES

PREREQUISITE TASKS: INSTALL M85 MACHINEGUN, REMOVE/

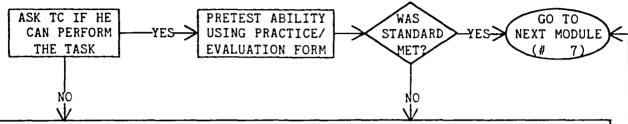
INSTALL M36E1 PERISCOPE DAYLIGHT BODY AND PASSIVE ELBOW, CLEAR THE M85 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; TARGET

W/CLEARLY DEFINED RIGHT ANGLE AT 500 METERS:

1 M85 MACHINEGUN.



## TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards.
- 2. Explain purpose of boresight.
- 3. Emphasize safety requirements (warnings).

#### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Clear machinegum, noting that it is the first step in boresighting.
- 3. Remove M36E1 periscope daylight body and passive elbow.
- 4. Walk/talk TC through procedures (steps) to remove backplate, driving spring, sear assembly, charging handle, and bolt.
- 5. Walk/talk TC through remaining steps to center barrel on target aiming point.
- 6. Walk/talk TC through steps to boresight M36E1 periscope.
- 7. Install holt, charging handle, sear assembly, driving spring, and backplate.
- 8. Install Mobil Periscope Daylight Body and Passive Elbow.
- 9. Repeat the M85 machinegun boresight procedure, without interruption.

## PRACTICE

- 1. Have the TC perform each step in boresighting the M85 and M36E1 periscope as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance.
- 3. Critique TC's performance while reinforcing correct responses.
- 4. Have TC perform the boresight procedure, without prompting.
- 5. Repeat Steps 1-4 until satisfied with TC's performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: M85 Machinegun barrel is vertically and horizontally centered on target aiming point as is the M36E1 Periscope reticle.

INSTRUCTO		Ι	N	S	T	R	U	C	T	0	
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TC

	BEGIN EXERCISE:			GO	NO GO	
١.	Announce "BORESIGHT M85 MACHINEGUN BARREL," and	1.	Clears the machinegun.			I
	observe performance (Steps 1-10).	2.	Removes M36E1 daylight			
		3.	body and passive elbow. Disconnects solenoid			٦
			lead connector.			<u> </u>
		4.	Lifts backplate group from receiver.		<u> </u>	لـ
		5.	Removes bolt buffer group.			
		6.	Removes sear.			J
		7.	Removes charger handle.			
		8.	Removes bolt assembly.			
		9.	Sights through machinegun bore aligning center on target aiming point by manually elevating and traversing cupola.			
2.	Look through machinegun barrel and determine if M85 is boresighted.	10.	Unlocks Azimuth Lock and uses azimuth adjustment knob for			
3.	Announce "BORESIGHT M36E1." and observe	11.	precise adjustments. Installs M36E1 daylight body and			
	performance (Steps 11-15).	4.0	passive elbow.			_
		12.	Sights through daylight body eyepiece.	L	l <u>L</u>	لــ
		13.	Disengages and rotates elevation and deflec-			
		14.	tion boresight knobs. Places Boresight Reticle on target aiming point.	·		
4.	Look through M36E1 to determine if daylight body is boresighted.	15.	Rotates slip scales to 4 & 4.			J
5.	Score total performance.					
	GO [		NO GO			

PREREQUISITE TASKS:

PERFORM M85 MACHINEGUN PREPARE-TO-FIRE

TRAINING MODULE NO: TIME: 15 MINUTES

CHECKS.

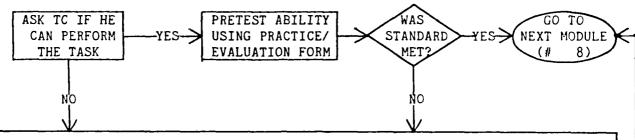
INSTALL M85 MACHINEGUN, LOAD THE

M85 MACHINEGUN; CLEAR M85 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; TM 9-1005-231-10.

SUPPORT REQUIREMENTS: 1 M85 CALIBER .50 MACHINEGUN: 1 BELT OF

CALIBER .50 DUMMY AMMO (10 ROUNDS).



#### TRAIN THE TASK

## INTRODUCE

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- State performance task and training standard in your own words.
- Explain that task is performed during crew Prepare-to-fire procedure. 2.
- Emphasize safety requirements (warnings).

## DEMONSTRATE

- Position yourself in TC seat with TC observing from outside hatch.
- Walk/talk thru the prepare-to-fire checks (use Practice/Evaluation Form). 2.
- Announce the commands given during task performance, as they occur.
- Repeat the M85 machinegun prepare-to-fire checks, without interruption.

## PRACTICE

- Have the TC perform each step in M85 prepare-to-fire checks as you annotate them (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance. 2.

NO-

- Critique performance while reinforcing correct responses.
- Have the TC perform M85 machinegun PREPARE-TO-FIRE checks, gradually removing prompts and cues.
- Repeat steps 1-4 until satisfied with TC's performance.

## EVALUATE

- Instruct TC on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form. 2.
- Test to Standard: Performs M85 machinegun prepare to fire checks correctly and without delay.

STANDARD

	INSTRUCTOR		TC	
	BEGIN EXERCISE:			GO NO GO
1.	With the M85 Machinegun loaded, the safety in "S",	1.	Sets gun safety to "F" with bolt forward.	
	and Master Battery and Ventilator Blower switches in ON, announce "PERFORM M85 MACHINEGUN PREPARE TO FIRE CHECKS," and observe	2.	Sets rate of fire selector switch in proper position for target.	
	performance (steps 1-9).	3.	Raises forward inter- rupter (searchlight mounted tanks only).	
2.	Announce "MANUAL FIRE."	4.	Pulls trigger extension handle.	
3.	Announce "FIRE M85 ELECTRICALLY."	5.	Sets Cupola Power switch to ON.	
		6.	Sets Gun Safety switch to ON.	
		7.	Sets Last Round Override switch to OFF.	
		8.	Checks Gun Ready Light.	
		9.	Depresses firing trigger.	
4.	Score total performance.			
	G0 [		NO GO	

TRAINING MODULE NO:

TASK: CONDUCT LRF SELF TEST.

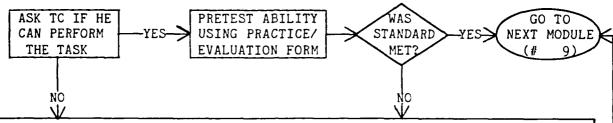
T. TIME: 45 MINUTES

PREREQUISITE TASKS: CONDUCT LRF LOGIC TEST;

CONDUCT LRF FIRING TEST.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; LASER SAFE RANGE AREA.



## TRAIN THE TASK

## INTRODUCE

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- 1. State performance task and training standards in your own words.
- 2. Identify components of Laser Rangefinder (LRF).
- 3. Emphasize safety requirements (warnings).

## DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from LDR station.
- 2. Identify where the LRF self-test procedures are located in TM.
- Walk/talk TC through each step of procedure (use Practice/Evaluation Form).
- 4. Repeat the entire LRF self-test procedure, without interruption.

## PRACTICE

- 1. Position TC in TC seat while you observe from LDR station.
- 2. Have TC perform the LRF self-test, stating each step as he does it.
- Provide prompts/cues to guide task performance.
- 4. Critique performance while reinforcing correct responses.
- 5. Have TC perform LRF self-test without prompting.
- 6. Repeat steps 1-5 until satisfied with TC's performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Conducts LRF self-test correctly and without delay.



INSTRUCTOR

TC

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "CONDUCT LRF SELF TEST," and observe performance (Steps 1-9).	2.	Makes initial switch settings and checks indicators and displays a. MODE to TEST; POWER illuminates.  b. MASTER BATTERY to OR 8888 displayed. c. POWER to ON; RETURNS displays 8. Checks LIGHT/DIM/TEST switch and indicators: a. TEST; all illuminate b. LIGHT/DIM; RANGE, RESET, FEED, BATL RELAST, TEST illuminate and RANGE (METERS) and RETURNS display 0000 and 0.	N; S	
2.	CAUTION - LRF WILL FIRE IF RANGE SWITCH OR THUMB SWITCHES ARE PRESSED.	<ol> <li>4.</li> </ol>	Sets MODE to ON then to AUTO; each illuminate and RANGE flashes within 4 sec. Sets MANUAL/RANGEFINDER to MANUAL; RANGE should not flash.		
		6.	POWER to ON then XMTR TEST; all indicators remain on. Sets EMER POWER to OFF and depresses/holds		
		7.	RANGE pushbutton; RANGE (METERS) displays 0002 and MALF illuminates. Releases RANGE and depresses BATL RNG;		
		8.	BATL RNG illuminates. Performs each step in LRF logic test (Table 2-1 of Operator's Manual).		
		9.	Perform LRF Firing Test (if authorized lasing area is available).		
3.	Score total task performance	ce.			
	GO [		NO GO		

CONDUCT LRF LOGIC TEST.

TRAINING MODULE NO: TIME: 10 MINUTES

CONDUCT LRF SELF-TEST

(STEPS 1-7).

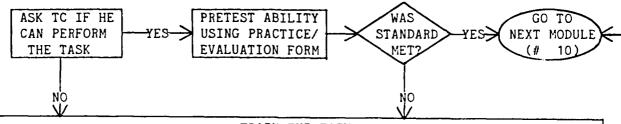
TRAINING REFERENCES:

PREREQUISITE TASKS:

TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; TABLE 2-1 OPERATOR'S MANUAL (RANGING

AND LOGIC TABLE).



## TRAIN THE TASK

## INTRODUCE

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- State performance task and training standards in your own words.
- Review LRF self-test prerequisite steps to task performance.
- Emphasize safety requirements (warnings).

## DEMONSTRATE

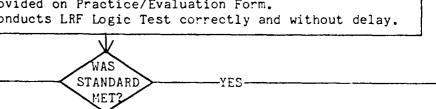
- Position yourself in TC seat with TC observing from LDR station.
- 2. Review Ranging & Logic Table (use Practice/Evaluation Form).
- Walk/talk TC through each step of LRF logic test procedure.

## PRACTICE

- Position TC in TC seat while you observe from LDR station.
- 2. Have TC perform each step on Ranging & Logic Table (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance.
- Critique TC performance while reinforcing correct responses.
- Have TC conduct LRF logic without prompting.
- Repeat steps 1-5 until satisfied with TC's performance.

## EVALUATE

- Instruct TC on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Conducts LRF Logic Test correctly and without delay.



INSTRUCTOR

TC

**BEGIN EXERCISE:** 

STABLES TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL

GO NO GO

 Hand TC the Ranging & Logic Table (attached), and observe performance (Steps 1-22).  Performs each of the steps listed below in Ranging & Logic Table.

Ranging and Logic Table

	Inputs	nanging a	Indic	ations			
				RANGE (METERS)			
	Press and	Selector	RETURNS	Display	SEL	GO	
Step	Release	Lights	Display	(+ 15)*	Light	Light	
						]	
Set M	ODE switch		•				
1	RESET	LAST	0	0000	OFF	OFF	
2	RANGE	LAST	1	850	OFF	ON	
2 3	BATL RNG	LAST	0	0000	OFF	OFF	
4	RANGE	LAST	1	850	OFF	ON	
5 6 7	1	LAST	1	850	OFF	ON	
6	2	LAST	1	850	OFF	ON	
	RANGE	LAST	2	1850	OFF	ON	
8 9	RANGE	LAST	3	2850	OFF	ON	
	RANGE	LAST	4	2850	ON	OFF	
10	1	1	4	850	ON	OFF	
11	2	2	4	1850	ON	OFF	
12	LAST	LAST	4	2850	ON	OFF	
13	2	2	4	1850	ON	OFF	
14	FFFD	2	ц	1850	OFF	ON	
15	RESET	LAST	0	0000	OFF	OFF	
16	5	2	0	0000	OFF	OFF	
17	RANGE	2	1	9995**	ON	OFF	
18	FEED	2 2 2	1	9995	ON	OFF	
19	RANGE		2	1850	ON	OFF	
20	FEED	2	2	1850	OFF	ON	
21	RANGE***	LAST	0	0000	OFF	OFF	
22	RESET	LAST	00	0000	OFF	OFF	

<sup>\*</sup>Last digit of range display must always be 0 or 5.

\*\*If RANGE (METERS) displays 0000, go back to step 15.

Set ELEV/TRAV POWER switch to OFF position.

2. Score total performance.

	GO	NO	GO	
-1				

<sup>\*\*\*</sup>Set ELEV/TRAV POWER switch to ON position and range from gunner's handles.

TRAINING MODULE NO: 10

TASK: CONDUCT LRF FIRING TEST.

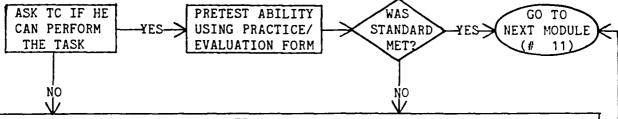
TIME: 10 MINUTES

PREREQUISITE TASKS: CONDUCT LRF SELF-TEST

(Steps 1-7); CONDUCT LRF LOGIC TEST.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; LASER SAFE RANGE AREA.



#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review LRF self-test prerequisite steps to task performance.
- 3. Emphasize safety requirements (warnings).

## DEMONSTRATE

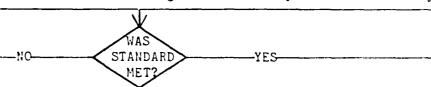
- 1. Position yourself in TC seat with TC observing from LDR station.
- 2. Review LRF Firing Test (use Practice/Evaluation Form).
- 3. Walk/talk TC through each step of LRF Firing Test procedure.

## PRACTICE

- 1. Position TC in TC seat while you observe from LDR station.
- 2. Have TC perform each step on LRF Firing Test (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide performance.
- 4. Critique TC performance while reinforcing correct responses.
- 5. Have TC perform LRF firing test without prompting.
- 6. Repeat steps 1-5 until satisfied with TC's performance.

## EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Conducts LRF Firing Test correctly and without delay.



### INSTRUCTOR

TC

**BEGIN EXERCISE:** 

NO GO GO

1. Hand TC the LRF Firing Test 1. Performs each of the (attached) and observe performance (steps 1-6).

steps listed below in LRF Firing Test.

### LRF Firing Test

1		Input	S		Ind	ication	s	
	Step	Press and Release	Selector Lights	RETURNS Display	RANGE (METERS) Display (+ 15)	SEL Light	GO Light	
	1	RESET	LAST	0	0000	OFF	OFF	
	2	2	2	0	0000	OFF	OFF	
	3	RANGE	2	1	9995*	ON	OFF	
	4	1	1	1	Target Range	ON	OFF	
	5	FEED	1	1	Target Range	OFF	ON	
	6	Range <sup>¥#i</sup>	LAST	1	Target Range	ON	OFF	

If RANGE (METERS) displays 0000, press RESET and repeat test sequence.

2. Score total performance.

GO	NO GO
----	-------

Last digit of range display must always be 0 or 5. \*\*\*\*Set ELEV/TRAV POWER switch to ON position and range from gunner's station.

Set ELEV/TRAV POWER switch to OFF position. If RANGE (METERS) displays 9995, set EMER POWER to OFF and repeat steps 1-4.

TRAINING MODULE NO: 1

TASK: BORESIGHT THE LRF.

TIME: 30 MINUTES

PREREQUISITE TASKS:

CONDUCT LRF SELF-TEST.

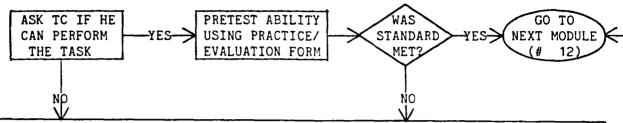
TRAINING REFERENCES:

TM 9-2350-253-10.

SUPPORT REQUIREMENTS:

1 M60A3 TANK; 1 MUZZLE BORESIGHT DEVICE OR BLACK

THREAD: LASER SAFE RANGE AREA.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review procedure for installing boresight device (or black thread) and laser filters.
- 3. Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from LDR station.
- Install muzzle boresight device (or black thread) and laser filter.
- Walk/talk TC through the boresight procedure (use Practice/Evaluation Form).
- ". Note that reticle is laid from left to right and from low to high without overtravel.

### PRACTICE

- 1. Position TC in TC seat while you observe from LDR station.
- 2. Have TC perform each step of LRF Boresight procedure (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide the performance.
- 4. Critique TC performance while reinforcing correct responses.
- 5. Have TC boresight the LRF, without prompting.
- 6. Repeat steps 1-5 until satisfied with TC's performance.

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Boresights the LRF correctly and without delay.



	INSTRUCTOR		<u>TC</u>
	BEGIN EXERCISE:		GO NO GO
	Install muzzle boresight device (or black thread), announce "BORESIGHT THE LRF," and observe perfor-	1.	Places MANUAL/RANGE- FINDER switch in RANGEFINDER and adjusts reticle brightness.
	mance (Steps 1-9).	2.	Places MODE switch in ON.
		3.	Presses BATL RNG push- button.
		4.	Places 6X/12X switch in
		5.	Adjusts DEFLECTION and ELEVATION controls to lay reticle on aiming point (left to right; low to high).
		6.	Ensures periscope reticle is on target aiming point then slips scales to 4 and 4.
		7.	Presses RANGE, 1 or 2, then determines if RANGE (METERS) indicator displays correct range (If not, repeats steps 5-7).
		8.	Presses FEED and places MODE switch in TEST.
2.	Score total performance.	9.	Ensures periscope reticle is still on target (If not, repeats steps 5 and 6).
	GO		NO GO

TASK: OPERATE THE LRF.

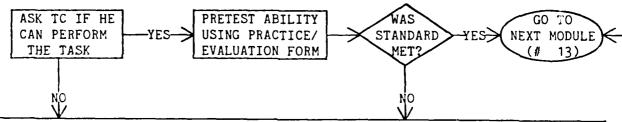
TRAINING MODULE NO:

TIME: 30 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; LASER SAFE RANGING AREA.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- Review function of each LRF control/indicator.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in TC station with TC observing from LDR station.
- 2. Walk/talk TC through ON mode of LRF operation.
- 3. Walk/talk TC through AUTO mode of LRF operation.
- If possible, range to several targets in ON and AUTO mode and discuss sequence of response (single returns).

### PRACTICE

- Position TC in TC seat while you observe from LDR station (use Practice/Evaluation Form).
- Have the TC describe/perform each step of ranging procedure in ON mode.
- Have the TC describe/perform each step of ranging procedure in AUTO Mode (use Practice/Evaluation Form).
- Provide prompts/dues to guide performance (remove gradually).
- Critique TC performance while reinforcing correct responses.
- Repeat steps 1-5 until satisfied with TC performance.

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Correctly operates the LRF in ON and AUTO modes.



INSTRUCTOR		<u>TC</u>	
BEGIN EXERCISE:			GO NO GO
1. Announce "RANGE TO TARGET (specify) IN ON MODE," and	1	Places MODE switch in ON.	
observe performance (steps 1-6).	2.	Lays gun on target.	
	3.	Positions aiming point slightly below target center of mass.	
	4.	Presses RANGE button.	
	5.	Presses 1, 2, or LAST return button for correct range.	
	6.	Presses FEED button to transfer selected range	
2. Announce "RANGE TO TARGET (specify) in AUTO MODE,"	7.	Presses BATL RNG and RESET buttons.	
and observe performance (steps 7-12).	8.	Places MODE switch in AUTO.	
	9.	Lays gun on target.	
	10.	Positions aiming point slightly below target center of mass.	
	11.	Presses RANGE button.	
3. Announce "SAFE THE LRF," and score total performance		Places MODE switch in TEST.	

were response among minima where it is a section.

NO GO [

GO \_\_\_\_

: RESPOND TO MULTIPLE RANGE RETURNS.

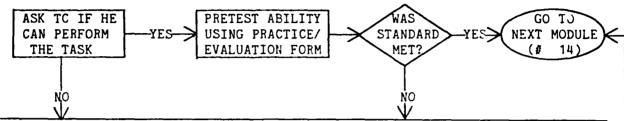
TRAINING MODULE NO: 13

TIME: 30 MINUTES

PREREQUISITE TASKS: OPERATE THE LRF.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; LASER SAFE RANGE AREA.



### TRAIN THE TASK

### INTRODUCE

MANAGE CONTROL MANAGES EXCESS.

- 1. State performance task and training standards in your own words.
- 2. Review LRF operation procedure.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in TC station with TC observing from LDR station.
- 2. Walk/talk TC through multiple range return procedure (evaluate, select, transfer).
- 3. Walk/talk TC through TC options when none of the returns is accurate (relasing, lasing from TC station, indexing range, and battlesight).
- 4. Present a practice scenario and discuss solution with TC (use Practice/Evaluation Form).
- If possible range to several targets and apply appropriate actions.

### PRACTICE

- 1. Position TC in TC station while you observe from LDR station.
- 2. Have the TC describe the evaluate/select/transfer procedure.
- 3. Present a problem scenario (or actual situation) and have the TC describe/perform the appropriate sequence of responses (use Practice/Evaluation Form).
- 4. Provide prompts and cues to guide performance; gradually remove.
- 5. Critique performance while reinforcing correct responses.
- 6. Repeat steps 1-5 until satisfied with TC performance.

### EVALUATE

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Responds to multiple range returns correctly and without delay.

WAS STANDARD MET3

\_YES

INSTRUCTOR

TC

	BEGI	IN EXERCISE:			GO	NO GC
1.	PRAC SCEN	domly select one of CTICE or EVALUATION NARIOS, read it aloud IC and score performance	1. e.	Describes/performs the correct sequence of responses for each of the following scenario problems.		
2.	mair	eat step 1 for the re- ning scenarios then scor al performance.	re			
		CTICE SCENARIOS				
	1. 2.	You have ranged on a tagoes on. What are the You have ranged on a tag	appro	opriate TC actions?		
		goes on. RANGE 1 is 50 RANGE LAST is 1480 m.	00 m, You	RANGE 2 is 1000 m, and		beautiful and the second
	3.	goes on. RANGE 1, RANG	GE 2, ur est	and RANGE LAST are all timation of range. What		
	4.	You have ranged on a to continue to receive intarget is about 1200 m priate TC response?	arget accura	a number of times and ate LRF returns. The		
	EVAI	LUATION SCENARIOS				
	1.		arget	and the SELECT light		
	2.	goes on. What are the You have ranged on a t LRF returns. RANGE 2 timated range. What i	arget is qu:	and receive multiple ite close to your es-		
	3.	response? You have ranged on a t LRF returns. None of	the th	nree ranges displayed		
				target range. What are		
	4.	the appropriate steps You have ranged on a t LRF returns. The LAST estimated range. What	arget retu	and receive multiple rn is close to your		
	5.	response? You have ranged on a t continue to receive in What are the TC steps estimated range?	accur	ate multiple LRF returns		
	6.	You have ranged on a t goes on. RANGE 1 agre	es wi	and the SELECT light th your estimated range; ot. What is the appro-		
	7.	You have ranged on a t LRF returns. The firs estimated range. What response?	t ran	ge is close to your		
		GO		NO GO		

TRAINING MODULE NO:

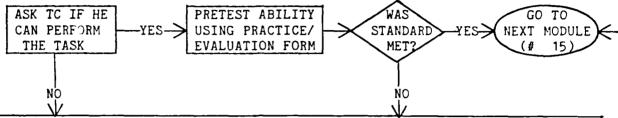
TASK: ISSUE FIRE COMMANDS.

TIME: 60 MINUTES

PREREQUISITE TASKS: IDENTIFY TARGETS.

TRAINING REFERENCES: FM 17-12-3; TEC TAPE 020-171-5359 (E,F).

SUPPORT REQUIREMENTS: 1 SET OF BATTLEFIELD SCENARIOS (ATTACHED).



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review types of threat (target identification).
- 3. Emphasize requirement for correctly stated fire commands.

### DEMONSTRATE

- 1. Present a pictorial scenario representing a tank target engagement (use attached set).
- 2. Walk/talk TC through procedure for classifying the threat.
- 3. Walk/talk TC through procedure for selecting best ammo/weapon.
- 4. Walk/talk TC through procedure for fire command elements and sequence.
- 5. Present several additional pictorial scenarios, without interruption.

### PRACTICE

- 1. Present a pictorial scenario representing a tank target engagement.
- 2. Have TC classify the threat, select best ammo/weapon, and then state the fire command elements in correct sequence.
- 3. Provide prompts and cues to guide performance: gradually remove.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-4 until satisfied with TC performance.

- 1. Instruct TC on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Issues fire commands correctly and without delay.



	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO NO GO	ļ
1.	Randomly select a pictorial scenario of a battlefield situation, announce "CLASSIFY THE THREAT," and score performance.	l 1.	Classifies each threat as MOST DANGEROUS, DAN- GEROUS, or LEAST DANGEROUS.		
2.	Announce "SELECT THE BEST WEAPON AND AMMUNITION," and score performance.	2.	Selects the best wea- pon/ammunition to de- feat the threat.		
3.	Announce "STATE THE FIRE COMMAND ELEMENTS IN SE-QUENCE," and score performance.	3.	Issues fire command elements in sequence.		
4.	Repeat steps 1-3 using two other randomly selected scenarios, then score total performance.	l			
	SCENARIO #1	S	CENARIO #2	SCENARIO #3	
GO	NO GO GO		NO GO GO	NO GO	

TASK: ISSUE SUBSEQUENT FIRE COMMAND.

TRAINING MODULE NO:

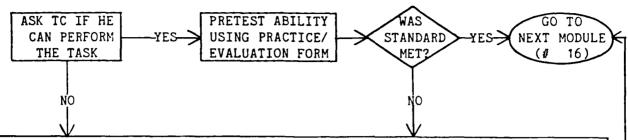
TIME: 60 MINUTES

PREREQUISITE TASKS: ISSUE FIRE COMMANDS.

TRAINING REFERENCES: FM 17-12; FM 17-12-3; FM 17-19E3.

SUPPORT REQUIREMENTS: 1M60A3 TANK OR TURRET TRAINER; 1 M55 LASER

(OPTIONAL).



### TRAIN THE TASK

### INTRODUCE

CONTRACT NOTICE AND ASSESSED TO THE SECOND S

- 1. State performance task and training standards in your own words.
- 2. Describe types of fire adjustment (REENAGAGE, Standard Adjustment, Commander's Adjustment).
- 3. Identify elements contained in subsequent fire command (Alert, Deflection, Range Correction, Execution).

### DEMONSTRATE

- 1. Position yourself in GNR seat with TC in TC station.
- 2. Adjust M55 laser dot as shown for #1 on Practice/Evaluation Form.
- 3. Issue the subsequent fire command that the TC should give when firing precision and SABOT ammo (use Practice/Evaluation Form).
- 4. Issue the subsequent fire command that the TC should give when firing Precision and HEAT ammo (use Practice/Evaluation Form).
- 5. Issue the subsequent fire command that the TC should give when firing degraded using M105 telescope (use Practice/Evaluation Form).
- 6. Repeat steps 2-5 for the remaining first round miss observations (1 mil short, 2 mils left, etc.).

### PRACTICE

- 1. Adjust M55 laser dot as shown on Practice/Evaluation Form.
- 2. Announce initial fire command and gunner's response to 1st round miss.
- 3. Instruct TC on how to issue the correct subsequent fire command.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-4 for the remaining 1st round miss indications, as shown.
- 6. Repeat steps 1-5 until satisfied with TC performance.

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Issues subsequent fire commands correctly without delay.

	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	Lay gun on target, in- struct TC to announce GUNNER-SABOT-TANK, and then to issue a subsequent fire command for each of the following:	•	Issues a subsequent fire command, where applicable, as follows:	:	
	M55 LASER GNR(Instructor)  1 mil high REENGAGING  1 mil short REENGAGING  2 mils left REENGAGING  1 mil right REENGAGING  (Nothing) LOST		TC:  GUNNER-DROP ONE-FIRE  GUNNER-ADD ONE-FIRE  GUNNER-RIGHT TWO-FIRE  GUNNER-LEFT ONE-FIRE  GUNNER-REENGAGE or  Remain Silent		
2.	Instruct TC to announce GUNNER-HEAT-TANK and issue a subsequent fire command for each of the following:	2.	Issues a subsequent fire command, where applicable, as follows:	:	
	M55 LASER GNR(Instructor)  1 mil high DROP THREE  1 mil short ADD THREE  2 mils left LOST  1 mil right RIGHT ONE  (Nothing) LOST		GUNNER-ADD ONE-FIRE GUNNER-DROP ONE-FIRE GUNNER-RIGHT TWO-FIRE GUNNER-LEFT ONE-FIRE GUNNER-REENGAGE or Remain Silent		
3.	Instruct TC to announce GUNNER-SABOT-TANK-ONE NINE HUNDRED and issue a subsequent fire command for each of the following:	3.	Issues a subsequent fire command, where applicable, as follows	:	
	M55 LASER GNR(Instructor)  •1 mil high DROP ONE		TC: •GUNNER-DROP TWO HUNDRI FIRE		
	•1 mil short REENGAGING		•GUNNER-ADD TWO HUNDRED FIRE	D <b>-</b>	
	e2 mils left LOST		aGUNNER-LEFT TWO-FIRE		

4. Score total performance.

e(Nothing)

•1 mil right RIGHT ONE...

LOST...

GO [	NO GO
------	-------

Silent

•GUNNER-LEFT ONE-FIRE

•GUNNER-DROP TWO HUN-DRED-FIRE or Remain

TRAINING MODULE NO: 16
TIME: 30 MINUTES

TASK: PERFORM PREPARE-TO-FIRE CHECKS.

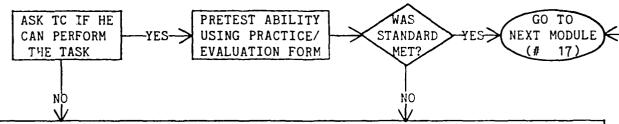
PREREQUISITE TASKS: PERFORM LRF SELF-TEST; BORE-

SIGHT THE LRF; BORESIGHT THE M85 MACHINEGUN; LOAD THE

M85 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10 (TABLE 2-3).

SUPPORT REQUIREMENTS: 1 M60A3 TANK.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain how task is performed in cooperation with entire crew.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Locate Prepare-to-fire procedure (Table 2-3) in TM 9-2350-253-10.
- 2. Walk/talk TC through each step as listed in Table 2-3 (or use Practice/Evaluation Form).
- 3. Describe where/how other crewmember tasks interact in procedure.

### PRACTICE

- 1. Have the TC perform each step in prepare-to-fire procedure as stated in Table 2-3 of TM 9-2350-253-10 (or use Practice/Evaluation Form).
- Provide prompts/cues to guide performance: gradually remove.
- 3. Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with TC performance.

### EVALUATE

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Performs prepare-to-fire checks correctly and without delay.

NO STANDARD YES-

INSTRUCTO		Ιl	٧S	Т	R	U	С	Т	0	ŀ
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<u>TC</u>

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "PERFORM TC PRE- PARE-TO-FIRE CHECKS," and	1.	exterior lenses and		
	observe performance (steps 1-17).	2.	vision devices. Checks instrument lights.		
		3.	Checks periscope bal- listic shield operation.		
		4.	Checks LRF for MALF		
		5.	light. Insures LRF blister cover is locked open-		
	(Performed during TC com- mand "CHECK FIRING SWITCHES".)	6.	cleans lens. Checks firing trigger on control handle.		
	(Performed during TC com- mand "CHECK GUN CONTROLS").	7.	Checks control handle for power elevation/ traverse.		
	(Performed during TC command "CHECK GUN STABILIZA-	8.	Checks override and function in STAB mode.		
	TION").	9.	Checks STAB SHUT-OFF switch.		
		10.	Turns CUPOLA POWER and GUN SAFETY switches to ON.		
		11.			
	(Steps 12, 13, 15, and 17 are optional, since pre-	12.	Performs LRF self-test.		
	viously trained).	13.	Boresights LRF.		
		14.	Sets established zero into computer control unit.		
		15.	Boresights Cal. 50.		
		16.	Loads Cal. 50.		
2.	Score total performance.	17.	Ensures crew prepare-to- fire checks are complete i.e. REPORTGNR, LDR, DRV READY.		
	GO [		NO GO		

TRAINING MODULE NO: 17

TASK: DIRECT MAIN GUN ENGAGEMENTS-NORMAL MODE.

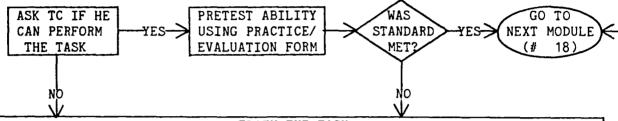
TIME: 30 MINUTES

PREREQUISITE TASKS: ISSUE FIRE COMMANDS; OPERATE THE LRF;

RESPOND TO MULTIPLE RANGE RETURNS.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1M60A3 TANK; LASER SAFE RANGE AREA.



### TRAIN THE TASK

### INTRODUCE

KERSKEY ANNOYA DESCRIPT SAFETYN SEASKAN

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite task requirements.
- Emphasize safety requirements (warnings).

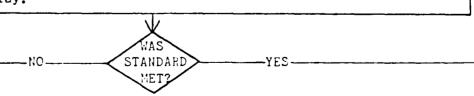
### DEMONSTRATE

- 1. Position yourself in TC station with TC observing from GNR station.
- 2. Specify type of target engagement and issue appropriate fire command (use Practice/Evaluation Form).
- 3. Walk/talk TC through each step of the procedure/requirements:
- 4. Repeat demonstration for HEAT type target and two-tank target engagement.

### PRACTICE

- 1. Position TC in seat while you assume GNR duties/seat.
- Point out target then have TC direct main gun engagement in normal mode (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide performance; gradually remove.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 2-4 using a HEAT target and two tank target engagement.
- Repeat steps 2-5 until satisfied with TC performance.

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Directs main gun engagement in normal mode correctly and without delay.



INSTRUCTO	I	N	S	T	R	U	C	T	0	ı
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<u>TC</u>

	BEGIN EXERCISE:			GO NO GO
1.	Position yourself in GNR seat, identify target(s), announce DIRECT MAIN GUN ENGAGEMENT IN NORMAL MODE," and observe performance (Steps 1-5).	1.	Commands: • "GUNNER-SABOT-TANK" • "GUNNER-HEAT-BMP" • "GUNNER-SABOT-2 TANKS-RIGHT TANK"	
		2.	Lays the main gun for direction (target(s) appears in GNR field of view).	
2.	Announce "UP" and "IDENTIFIED".	3.	Releases turret over- ride control on hearing "IDENTIFIED".	
3.	Lay slightly below target center of mass, announce "LASING", and range to target.	4.	Verifies range, arming of main gun (UP), then commands "FIRE".	
4.	Relay on target center of mass, announce "ON THE WAY, fire, and announce observation ("TARGET-REENGAGING").		Commands: • "CEASE FIRE" • "CEASE FIRE" • "LEFT TANK" (then 3-5	)
5.	Score total performance for Trial 1, repeat steps 1-4 using a HFAT target engagement.			·.
6.	Score total performance for Trial 2, repeat steps 1-4 using two tank target engagment.	e <b>–</b>		
7.	Score total performance for Trial 3.			·
	Trial 1		Trial 2	Trial 3
	GO NO GO		GO NO GO	O NO GO

TRAINING MODULE NO: 18

TASK: ENGAGE MAIN GUN TARGETS FROM TC STATION.

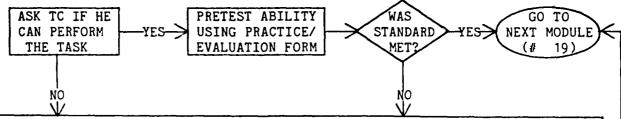
TIME: 30 MINUTES

PREREQUISITE TASKS: ISSUING FIRE COMMANDS; OPERATE THE LRF; RESPONDING TO

MULTIPLE RANGE RETURNS.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; LASER SAFE RANGE AREA.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite task requirements.
- 3. Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in TC station with TC observing from GNR station.
- 2. Specify type of target engagement to be demonstrated.
- 3. Walk/talk TC through each step of procedure/requirement (use Practice/Evaluation Form).
- Show how auto-lead is used in both POWER and STAB modes.
- 5. Show how GNR can resume control of a target engagement.

### PRACTICE

- 1. Position TC in seat while you assume GNR duties/seat.
- 2. Point out target then have TC direct/engage a stationary main gun target from his station (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide performance; gradually remove.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 2-4, allowing for TC to engage a moving target.
- 6. Repeat steps 2-4, allowing for GNR to resume control of target engagement.
- 7. Repeat steps 1-6 until satisfied with TC performance.

### EVALUATE

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Engages main gun targets from TC station correctly and without delay.

WAS STANDARD MET2

-YES

	BEGIN EXERCISE:			GO	NO GO
1.	Position yourself in GNR seat, identify target, and announce "DIRECT MAIN GUN ENGAGEMENT IN NORMAL MODE," and observe performance (Steps 1-13).	1.	Issues fire command: GUNNER-SABOT-TANK GUNNER-SABOT-MOVING TANK GUNNER-HEAT-TANK		
	•	2.	Lays the main gun for direction (target appears in GNR field of view).		
2.	Announce "UP" and "CANNOT IDENTIFY".	3.	Command "FROM MY POSITION".		
		4.	Lays slightly below		
		5.	target center of mass. Tracks target for 1.5		
		٠.	sec, if applicable.		
		6.	Ranges using LRF RANGE button.		
		7.	Establishes lead, if		
		8.	•		
		9.	of mass. Announces "ON THE WAY"		
_		4.0	and squeezes trigger.		
3.	Announce "UP".	10.	Relays onto target aiming point and an-		L]
4.	Score total performance for Trial 1, then repeat steps 1-3 for a moving target engagement.		nounces round observa- tion i.e., "TARGET- CEASE FIRE." for Trial and 2, but "SHORT-REEN- GAGING" for Trial 3. NOTE: Instruct TC before Trial.	••	
5.	Score total performance for Trail 2, repeat steps 1-3, then announce "IDENTIFIED" following TC observation.	11.	Returns control of main gun to GNR by releasing TC override.		
6.	Lay slightly below target center of mass, announce "LASING," and range to target.	12.	Verifies range, arming of main gun ("UP"), then commands "FIRE".	·	
<ul><li>7.</li><li>8.</li></ul>	Relay on target center of mass, announce "ON THE WAY," fire, and announce observation i.e., "TARGET-REENGAGING". Score total performance for Trial 3.	13.	Commands "CEASE FIRE" to end engagement.		
	Trial 1		Trial 2	Trial 3	
	GO NO GO		GO NO GO G	O NO C	60

TRAINING MODULE NO:

TASK: DIRECT MAIN GUN ENGAGEMENT USING RANGE

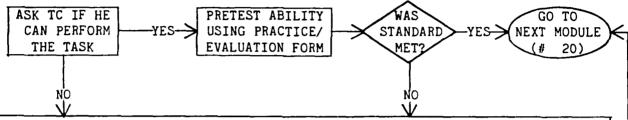
TIME: 30 MINUTES

CARD DATA.

PREREQUISITE TASKS: ISSUE FIRE COMMANDS.

TRAINING REFERENCES: FM 17-12; FM 17-12-3; FM 17-19E1/2; TC 17-15-13. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; 1 M55 LASER

(OPTIONAL); 1 RANGE CARD (DATA COMPLETED).



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- State purpose of range card engagements and types of range cards (sketch, circular).
- Explain considerations in using range card engagements (Disclosure of position, mission, excessive ammo, target criticality).

### DEMONSTRATE

- 1. Position yourself in TC's station and TC in GNR's station.
- Simulate receiving a range card fire engagement from platoon leader.
- 3. Issue a fire command using range card data (use Practice/Evaluation Form).
- 4. Walk/talk TC thru the procedure, having the TC repeating deflection, range, and quadrant announcements as you give them.
- 5. Repeat the range card engagement procedure, without interruption.

### PRACTICE

- 1. Instruct TC to issue a range card fire command (for standard area fire).
- 2. Role play the part of GNR and LOADER (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide performance; gradually remove. .
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-4 until satisfied with TC performance.

- 1. Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Directs main gun engagement using range card data without delay and according to standardized procedures.

	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	Specify the task conditions, hand TC range card data, and answer questions.	1.	Asks questions to clarify evaluation procedures.		
2.	Announce "BEGIN," role play part of GNR (LDR), and observe performance (Steps 2-4).  Repeat deflection reading Repeat range Repeat quadrant reading "ON THE WAY"	2.	Issues fire command:  • Alert (GUNNER)  • Ammunition (HEAT)  • Target description (AREA FIRE)  • "DEFLECTION " (EIGHT FIVE ONE LEFT)  • Range ("ONE EIGHT HUNDRED")  • "QUADRANT " (PLUS ONE FIVE)  • Execution (FIRE)		
3.	Perform GNR-LDR tasks, an- nouncing "ON THE WAY" and "UP" for each firing.	3.	Issues subsequent fire commands, in order:  • ADD ONE FIRE  • DROP TWO FIRE  • ADD ONE, RIGHT FIRE  • LEFT TWENTY		
4.	Score performance.	4.	Announces CEASE FIRE.		

GO \_\_\_\_

NO GO

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TRAINING MODULE NO:

TASK: ENGAGE TARGETS WITH M85 MACHINEGUN.

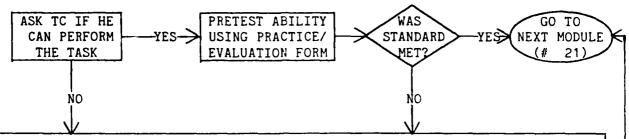
TIME: 30 MINUTES

PREREQUISITE TASKS: PERFORM M85 MACHINEGUN PREPARE TO FIRE CHECKS.

TRAINING REFERENCES: FM 17-12; FM 17-12-3; FM 17-19E3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; VARIOUS

STATIONARY AND MOVING TARGETS OR REPRESENTATIONS.



### TRAIN THE TASK

### INTRODUCE

CANADA CAMBAN MANADAM MARKARA MANADAM

- 1. State task performance and training standards in your own words.
- 2. Describe purpose of task and when performed by TC.
- 3. Identify types of targets engaged and effective range of Cal .50 machinegun.

### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Announce fire command: "CALIBER FIFTY".
- Check/set various switches (use Practice/Evaluation Form)
- 4. Walk/talk TC thru procedure for range determination using the LRF or estimation method.
- Walk/talk TC thru procedure for laying the M36E1 sight on (point and area) targets.
- 6. Walk/talk TC thru fire and adjust procedure.
- 7. Terminate engagement by announcing "TC COMPLETE".

### PRACTICE

- 1. Reset switches and set up target engagement conditions.
- 2. Have TC perform each step as you announce them (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance; gradually remove.
- 4. Critique performance while reinforcing correct responses.
- Repeat steps 1-4 until satisfied with TC's performance.

- 1. Instruct TC on performance evaluation procedure and standard.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Engages target with M85 Machinegum correctly and without delay.

	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	Specify the task conditions, preset switches, and answer TC questions. Identify target, announce "BEGIN," and observe TC performance (steps 2-10).	1.	Asks questions to clarify engagement procedures. Announces "CALIBER FIFTY" and lays gun in direction of target. oContinues to move when engaging area targets. oHalts briefly when engaging aerial or point		
			targets. ("DRIVER STOP")		
		3.			
		4.	Checks/sets mechanical safety on gun to F.		
		5.			
		6.	Estimates range to target (or use LRF if		
		7.	time/situation permits. Lays corresponding range line of M36E1 sight on target (and applies lead if needed)		
		8.	Fires using electrical trigger or trigger extension handle.		
		9.	Adjust fire (if applicable).		
		10.	Stops firing and an- nounces "TC COMPLETE."		
3.	Score total performance.				

response raccione according position, represent

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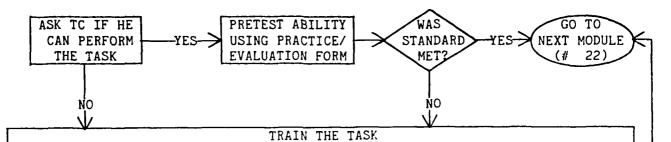
TRAINING MODULE NO:

TASK: REMOVE THE M85 MACHINEGUN.

TIME: 15 MINUTES

PREREQUISITE TASKS: INSTALL M85 CALIBER .50 MACHINEGUN.
TRAINING REFERENCES: TM 9-2350-253-10, TM 9-1005-231-10.
SUPPORT REQUIREMENTS: 1 M60A3 OR M30A1 TURRET TRAINER;

1 M85 CALIBER.50 MACHINEGUN.



### INTRODUCE

COOK PRESENTAL SECTIONS (SUNDAN) WINDOWN PROJECT SECTIONS (SUNDAN)

- 1. State performance task and training standards in your own words.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Clear the machinegun, noting that it is the first step in removing M85.
- 3. Walk-talk TC through the removal procedure (use Practice/Evaluation Form).
- 4. Repeat procedure for removing the MSS Machinegun, without interruption.

### PRACTICE

- 1. Have the TC perform each step in removing the M85 as you announce them. (Use Practice/Evaluation Form.)
- 2. Provide prompts/cues to guide performance.
- 3. Critique periormance while reinforcing correct responses.
- 4. Have TC perform the task, without prompting.
- 5. Repeat Steps 1-4 until satisfied with performance.

- Instruct TC on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Removes the M85 Caliber .50 Machinegun correctly and without delay.



	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	Set Master Battery switch to OFF. Announce "REMOVE M85 CALIBER .50 MACHINE- GUN," and observe perfor- mance (Steps 1-9).	1.	Clears the machinegun.		
		2.	Disconnects solenoid lead connector from end plate.		
		3.	Opens cradle access door, presses down on barrel latches, rotates barrel 1/4 turn, and removes.		
		4.	Elevates machinegun.		
		5.	Compresses quick- disconnect clamp to disconnect adjusting link from periscope elevation adjustment arm.		
		6.	Connects quick- disconnect clamp to stowage hanger.		
		7.	Removes rear mounting pin.		
2.	Score total performance.	8.	Slides machinegun from cradle.		
		9.	Removes deflection plate.		
	<del></del>		<del></del>		

NO GO [

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SK: POWER DOWN AND SECURE TANK COMMANDER'S

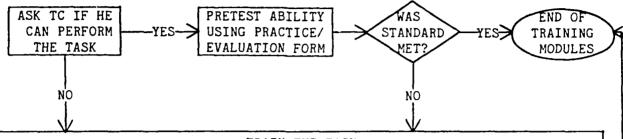
TRAINING MODULE NO: 22
TIME: 15 MINUTES

STATION.

PREREQUISITE TASKS: REMOVE THE M85 MACHINEGUN.

TRAINING REFERENCES: FM 17-19E3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



### TRAIN THE TASK

### INTRODUCE

CONTRACT TRACTOR ABBUILDING STRUCTURE SERVICES

MARKET STREET MARKET BESTONES RESERVE

- 1. State task performance and training standard in your own words.
- 2. Identify after operation PMCS completed prior to task.
- 3. Describe vehicle status (preset controls/switches for power down).

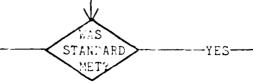
### DEMONSTRATE

- 1. Position yourself in TC seat with TC observing from outside hatch.
- 2. Identify the tasks performed to power down the station (use Practice/Evaluation Form).
- 3. Walk/talk TC thru each subtask (M85 removal-optional).
- 4. Verify GNR-LDR-DR tasks performed.

### PRACTICE

- Have TC perform each subtask as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance.
- 3. Critique performance while reinforcing correct responses.
- 4. Have TC power down and secure TC station, without prompting.
- 5. Repeat steps 1-4 until satisfied with TC's performance.

- 1. Instruct TC on performance evaluation procedure and standard.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Powers down and secures TC station without delay and in accordance with standardized procedures.



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	INSTRUCTOR		<u>TC</u>		
	BEGIN EXERCISE:			GO	NO GO
1.	Announce "POWER DOWN AND SECURE TC'S STATION," and observe performance (steps 1-7).	1.	Sets electrical switches to OFF: o Cupola power o M85 gun safety o M36E1 power o AM-1780 power		
		2.	Places LRF in TEST MODE		
		3.	Checks/engages cupola azimuth interlock.		
2.	(Optional)	4.	Removes M85 machinegun: o Clears o Unloads o Stows		
		5.	Ensures GNR-LDR-DR tasks are completed: o Weapon safed o Turret power OFF o Computer power OFF o Turret LOCKED o Ballistic shield CLOSED o Master battery OFF o DR hatch secured		
3.	(Optional)	6.	Remove/stow CVC helmet		
		7.	Exit/secure LDR's hatch		
4.	Score total performance.				

NO GO

GO \_\_\_\_

(ATTACHMENT)
BATTLEFIELD SCENARIOS





- You are in a bounding overwatch, halted, and fully operational.
- Round loaded is SABOT.
- A T-72 is off to your left, range 1,700 meters. It has seen
- you.
   A 12-min self-propelled howitzer is to your right, range 2,500 meters. It has not seen you.

### QUESTIONS

- What is the MOST DANGEROUS and what is the DAN-GEROUS threat?
- 2. What is the best ammunition for engaging the MOST DANCEROUS and DANCEROUS threat?
- 3. What is the appropriate initial fire command for this threat scenario?

# THE SITUATION

Scenario No. 1

## Scenario No. 2

- You are stopped in a bounding overwatch position and fully operational.
  - Round loaded is HEAT.
- A dismounted SAGGER crew at 2000 meters is preparing to freat you.

- . What type of threat is the SAGGER crew?
- Based on the conditions, what is the appropriate annuanition/v eapon to use against the threat?
  - 3. What is the fire command for this threat scenario?





## Scenario No. 3

- You are temporarily stopped during an advance and fully operational.
- Round loaded is SABOT.
- A self-propelled howitzer is identified at 2,000 meters directly in front of you. It has not seen you.

### OUESTIONS

- What type of threat is the self-propelled howitzer?
- Based on the conditions, what is the appropriate ammunition/weapon to use against the threat?
  - What is the fire command for this scenario?



# THE SITUATION

## Scenario No. 4

- You are turret down, well concealed, and fully operational.
  - Round loaded is HEAT.
- A HIND-A helicopter is seen at 3,000 meters. It does not See you.
  - A T-72 appears at 2,000 meters. It does not see you,

- Is the HIND A helicopter a MOST DANGEROUS, DAN-GEROUS, or LEAST DANGEROUS threat?
- Is the T-72 a MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS threat?
  - Based on the conditions, what is the appropriate fire command?



# Scenario No. 6 THE SITUATION

- You are in a deliberate attack and have penetrated the enemy's forward defensive position. You are fully operational,
  - Round loaded is SABOT.
- You see a BM-21 mounting a 122-mm rocket launcher to You see the threat troops at about 2,500 meters.
  - your right at 1,000 meters. It has seen you.

### QUESTIONS

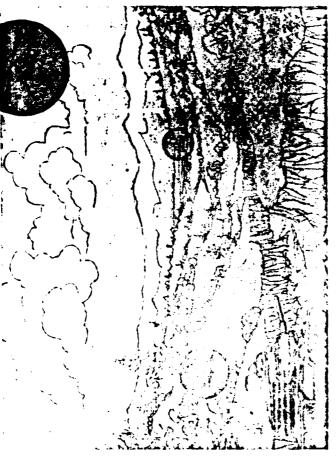
- Is the BM-21 a MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS threat?
- Are the troops a MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS threat? ci
  - What is the appropriate initial fire command?

# THE SITUATION

# Scenario No. 5 You are moving in a traveling overwatch mode and fully

- operational.
  - Round loaded is SABOT.
- You see a BMP with SAGGER at 1500 meters. It apparently has not seen you.
- A man pack SACCER team is straight ahead at 750 meters. You have been seen,

- Is the man-pack SAGGER team MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS?
  - Is the BMP with SAGGER a MOST DANGEROUS, DAN-GEROUS, or LEAST DANGEROUS threat?
    - What is the appropriate initial fire command?



Scenario No. 7

- You are in a defensive position and are under heavy attack. Troops with an BPG are on your left at 750 meters, They
  - heave not seen vou.
- A T-72 at 4,000 meters is approaching. It has not seen you.
  A HIP-E helicopter mounting SWATTER antitank guided missile is hovering 1,000 meters away and aims at you.

### QUESTIONS

- 1. What are the threat classifications of the RPG, the T-72, and the IIIP-E?
- . What is an appropriate initial fire command?



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# THE SITUATION

Scenario No. 8

- You are fully operational and in a hasty defense.
- Two RPG teams are directly in front at 500 meters, One of them is aimed at you.
- A man pack SAGGER team, about 800 meters away, is behind the RPG's and has not seen you.
- behind the RPC's and has not seen you.

  An ASU-85 assault gun, about 2,500 meters away, is moving to your right. It has not seen you.
  - An MI-6 heavy lift helicopter is flying away to the right.

## **OUESTIONS**

- . What are the DANGEROUS threats in the situation?
  - What is the appropriate initial fire command?



Scenario No. 9

- You are fully operational and in a hasty defense.
- A BRDM mounting SAGGERs is 1,000 meters to your left. It is moving and not aimed at you.
- 152-mm howitzers, at 3.500 meters, are giving indirect fire. Dug-in troops are directly in front at 1,500 meters. The troops see you but have not fired.
  - A PT-76 at 1.200 meters to your right is stopped and aiming at you.

### OUESTIONS

- is (are) MOST DANGEROUS, DAN-GEROUS, LEAST DANGEROUS? Which target(s)
- What is the appropriate initial fire command?



# THE SITUATION

Scenario No. 10

- You are in a traveling overwatch and are fully operational.
  - Round loaded is SABOT.
- A T-72 comes out of the woods to your left about 1,200 meters away. He apparently does not see you.
- An RPG appears to your right at 600 meters and is aiming at you.
- An SP-122 is giving indirect fire. He is about 2,500 meters in front of you but does not see you.

- Which target is MOST DANGEROUSP
- What is the appropriate ammunition/weapon to use against the most dangerous target?
  - What is the appropriate initial fire command?



- You are in a deliberate attack, moving through woods and fully operational.
- Machineguns (7.62-mm) in foxholes are on your left and right at about 500 meters. They are firing at you.
- Three T-12A antitank guns are directly in front at about 1,000 meters. One T-12A brings its gun to aim at you.

### QUESTIONS

- . Which target is MOST DANGEROUS?
- 2. What is the most appropriate ammunition/weapon to use against the MOST DANGEROUS target?
  - 3. What is the appropriate initial fire command?



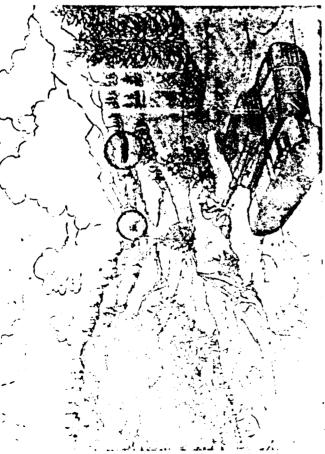
# THE SITUATION

Scenario No. 11

Seenario No. 12

- You are in a hasty defensive position, poorly concealed, but fully operational.
  - Round loaded is SABOT.
- There are three SPG-9 (recoilless gun) teams to your left at 2.000 meters. They apparently have not seen you.
- A BRDM mounting SAGGERs is directly ahead at 1,500 meters. It has stopped and looks like it is preparing to fire at you.

- Which targets are DANGEROUS threats?
- 2. What ammunition/weapon should be used against the MOST DANGEROUS threat?
  - . What is the appropriate initial fire command?





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# THE SITUATION

Scenario No. 13

- You are in a bounding overwatch, halted, and fully opera-
- A T-72 is off to your left, range 1,700 meters. It has seen Almost directly in front is a T-12A antitank gun, range more
- A 122-min self-propelled howitzer is to your right, range than 3,000 meters. It has not seen you.

# 2,500 meters. It has not seen you. QUESTIONS

- Which target is MOST DANGEROUSP
- What is the appropriate ammunition/weapon for use against the MOST DANGEROUS threat?
- What is the appropriate initial fire command?

# THE SITUATION

Scenario No. 14

- You are in a deliberate attack, moving, and fully operational.
  - Round loaded is SABOT.
- A T-12 antitank unit is providing area fire. The unit is located more than 3,000 meters from you.
  - There is a T.62 directly in front of you, range 1,400 meters. It apparently has not seen you.
- A dismounted SAGGER is off to your right, range 750 meters. It is preparing to launch at you.

## OUESTIONS

- Which targets are DANGEROUS threats?
- What is the appropriate ammunition/weapon to use against the MOST DANGEROUS target?
  - What is the appropriate initial fire command?





CONTRACTOR DESCRIPTION

# THE SITUATION

Scenario No. 15

- You are in a deliberate attack, moving, and fully operational.
  - Round loaded is SABOT.
- There are two T-72 tanks off to your right, range 1,800 meters. They have not seen you.

### QUESTIONS

- Are these targets MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS?
  - What is the appropriate ammunition/weapon to use against the targets?
    - What is the appropriate initial fire command?

# THE SITUATION

- You are in a defensive position and fully operational,
  - Round loaded is HEAT.
- rails comes over the tree line, sees you, and lines up for a A HIND-D helicopter with SAGGER ATCM mounted on lannch.
  - A 73-mm recoilless antitank gun is off to your right at about 1,000 meters. It has not seen you.
    - A T-12 is coming throught the woods off to your left, over 3,000 meters away. It has not seen you.

- What is the MOST DANGEROUS threat?
   What is the appropriate initial fire command?





# NOLLY STRUCK

Scenario No. 17

- You are turret down and fully operational.
  - Round loaded is SABOT.
- Two trucks appear moving down the road about 800 meters away.

### OUESTIONS

- . Are the trucks MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS threats?
- 2. What is the appropriate ammunition/weapon to use against the trucks:
- 3. What is the appropriate initial fire command?

# THE SITUATION

Seenario No. 18

- You are attacking and have penetrated the outer ring of enemy defenses.
  - Your Laser Rangefinder has failed.
    - Round loaded is HEAT.
- A T-72 approaches your direct front, range 1,000 meters. It has seen you.
- Off to your right, at a range of about 900 meters, you see a 122-mm self-propelled howitzer. It does not see you.

- 1. Which target is the MOST DANGEROUS threat?
- 2. Under the circumstances, what is the most appropriate initial fire command?





- You are the lead element in a bounding overwatch.
  - The LRF has failed.
- Round loaded is HEAT.
- You see a T-72 directly in front at 1,000 meters. It has seen
- There is a T-12A antitank gun, right front, at 1,000 meters. It has not seen you.

### QUESTIONS

- What is the appropriate initial fire command? 1. Which target is the DANGEROUS threat? 2. What is the anoromiate isstial time.

# THE SITUATION

Scenario No. 19

Scenario No. 20

- You have penetrated enemy's security zone, moving at 5-8 mph, and fully operational.
  - Round loaded is HEAT.
- Two T-72s are coming straight at you at 1,500 meters.
  - The lead tank is turning to fire at you.

- Is the second tank a MOST DANGEROUS, DANGEROUS, or LEAST DANGEROUS threat?
  - What is the appropriate initial fire command?

# ANSWERS FOR QUESTIONS WITH PICTORIAL SCENARIOS (TC Module #14)

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SCENARIO	QUESTION 1	QUESTICN 2	QUESTION 3
1.	MOST DANGEROUS: T-72 DANGEROUS: SELF- PROPELLED HOWITZER	SABOT	"GUNNER, SABOT, TANK, FIRE"
2.	MOST DANGEROUS	HEAT	"GUNNER, HEAT, ANTITANK, FIRE"
3.	DANGEROUS	HEAT	"GUNNER, HEAT, TANK, FIRE"
4.	DANGEROUS	DANGEROUS	"GUNNER, SABOT, TANK, FIRE"
5.	MOST DANGEROUS	DANGEROUS	"GUNNER, COAX, ANTITANK, FIRE"
6.	MOST DANGEROUS	LEAST DANGEROUS	CAL.50
7.	RPG AND T-72 DAN- GEROUS. HIP-E MOST DANGEROUS	"GUNNER, SABOT	, CHOPPER, FIRE"
8.	MAN PACK SAGGER, RPG	"GUNNER, COAX,	TROOPS, FIRE"
9.	MOST DANGEROUS: PT-76 AND HOWITZERS. DAN- GEROUS: BRDM. LEAST DANGEROUS: TROOPS	"GUNNER, SABOT	, TANK, FIRE"
10.	RPG	CAL.50	CAL.50
11.	T-12A AIMED AT YOU	HEAT	"GUNNER, HEAT, ANTITANK, FIRE"
12.	SPG-9	CAL.50	CAL.50
13.	T <b>-</b> 72	SABOT	"GUNNER, SABOT, TANK, FIRE"
14.	T-12, T-62	COAX	"GUNNER, COAX, ANTITANK, FIRE"
15.	DANGEROUS	SABOT	"GUNNER, SABOT, TWO TANKS, LEFT TANK, FIRE"
16.	HIND-D "GUNE	EE, SAROT, CHOFP	ER, FIRE"
17.	LEAST DANGEROUS	COAX "	GUMMER, COAX, TWO TRUCKS, FIRE"
18.	T-72	"GUNNER, FATTE LIANK, FIRE, E	
19.	T-12A	"GUMER, FACTI L. JAME, FAFE, F	
20.	DANGEROUS	"GUNGER, HEAT, FRONT TAME, F	TWO TANKS, IFE, FIPE SABOT"

PART 4

teres accounts exercise appropria exercise according

TANK GUNNER TRAINING MODULES

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CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

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TRAINING MODULE NO.

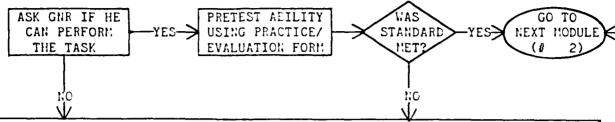
OPERATE M28E2 AZIMUTH INDICATOR.

TIME: 30 MINUTES PREREQUISITE TASKS: TRAVERSE TURRET USING POWER AND

MANUAL CONTROLS.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3; FM 17-19E1/2. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER: 1 M28E2

AZIMUTH INDICATOR.



### TRAIN THE TASK

## INTRODUCE

2 RXXXXXX 665666 RXXXXXX 8556668

- State performance task and training standards in your own words.
- 2. Identify measurement scales and pointers: azimuth (100 mils) and micrometer (one mil).
- Describe use of Resetter knob, gunner's aid, directional pointer, and 3. rheostat knob.

### DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader
- 2. Obtain an azimuth reading of 1005 mils left (identify pointers).
- 3. Obtain an azimuth reading of 2815 mils right.
- Repeat using two other readings from 0-3200 mils left and right.
- Test for accuracy (use Practice/Evaluation Form).
- Test for slippage (use Practice/Evaluation Form).

# PRACTICE

- Announce a deflection reading and have Gunner traverse turret to it.
- 2. Critique performance and repeat until satisfied.
- Walk/talk Gunner through each step of accuracy test.
- 4. Repeat step 3, gradually removing cues/prompts.
- 5. Continue with steps 3 and 4 until satisfied with Gunner's performance.
- 6. Walk/talk Gunner through each step of slippage test.
- 7. Repeat step 6, gradually removing cues/prompts.
- Repeat steps 6 and 7 until satisfied with Gunner's performance.

- 1. Instruct gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Crerates MC.E2 azimuth indicator by correctly traversing to announced azimuth readings, performing accuracy test, and performing slippage test.

INSTRUCTOR

	BEGIN EXERCISE:				<u> </u>	NO GO
1.	Have gunner illuazimuth indicate and adjust to debrightness.	r scales	1.	Places master battery switch in ON. Rotates rheostat knob on azimut indicator to desired brightness.	n	
2.	Announce "PERFORTEST," and obsermance (Steps 2-5	ve perfor-	2.	Places crosswind auto/manual switch to MANUAL.		
			3.	Places head in head- rest and lays aiming dot of direct-fire sight on defined aiming point.		
			4.			
	NOTE: Pointers within 0 zero.	should be .5 mil of	5.	Keeping head in head- rest, traverses manually 6,400 mils, without over-running aiming point.		
3.	Announce "PERFO TEST," and obsermance (Steps &-	rve perfor-	6.			
	mance (coeps c-	, , , , , , , , , , , , , , , , , , ,	7.	Lays aiming dot of direct-fire sight on defined aiming point.		
			.3	Zeros azimuth in- dictor using resetter knob.		
			9.	Places turret in power operation.		
			10.	Traverses rapidly clockwise several times in power and stop	\	
			11.	•		
	NOTE: Eoth poi should a zero wit		12.	Manually traverses counterclockwise to original aiming point		
			13.	without overrunning it. Repeats the procedure in opposite direction.		
4.	Announce 'DEFLE reading, (as gi range card fire and observe per	ven in a command)	14.	Traverses turret to the announced deflection ar repeats the deflection reading back to the TC.	nd	
5.	(step 14). Score lotal per	formance.				
		GO [		NO GO		

TRAINING MODULE NO.

TASK: OPERATE MIAI GUNNER'S QUADRANT.

TIME: 15 MINUTES

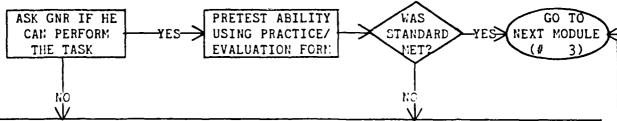
PREREQUISITE TASKS: ELEVATE/DEPRESS MAIN GUN USING

POWER AND MANUAL CONTROLS.

TRAINING REFERENCES: FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER;

1 MIA1 GUNNER'S QUADRANT.



# TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Identify components of Gunner's quadrant and location of "seats".
- 3. State purpose of Gunner's quadrant (test mounted elevation quadrant).
- 4. Explain when Gunner's quadrant should be turned in to organizational maintenance (correction exceed 0.4 mil).

# DEMONSTRATE

- 1. Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Conduct an end-for-end test to check Gunner's quadrant accuracy.
- Hake a plus correction (one half micrometer reading).
- 4. Make a minus correction (set to -10/center/subtract from 10/-2).
- Determine main gun elevation/depression using Gunner's quadrant.

# PRACTICE

- 1. Have Gunner conduct end-for-end test, stating each step as he does it.
- 2. Have Gunner explain/demonstrate how to make a plus correction.
- 3. Have Gunner explain/demonstrate how to make a minus correction.
- 4. Elevate or depress main gun, then have Gunner determine amount in mils.
- 5. Provide prompts-cues as necessary while reinforcing correct performance.
- 6. Repeat steps 1-5 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. DEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Operates M1A1 Gunner's quadrant by correctly performing end-to-end test, making plus and minus Gunner's quadrant corrections, adjusting M13A3 elevation quadrant, and determining elevation/depression of main gun in mils.

# INSTRUCTOR

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	BEGIN EXERCISE:			GO N	0 60
1.	Announce "PERFORI: END-FOR- END TEST OF GUNNER'S QUADRANT," and observe performance (Steps 1-4).	3.	Sets index arm and micro scale at zero. Places quad shoes on scribed quad seats of breech ring; black arrow pointed toward muzzle. Centers bubble by elev/depress gun. Turns the quad end-for-end (180°).		
2.	Announce "DEMONSTRATE AND EXPLAIN A PLUS CORRECTION TO GUNNER'S QUADRANT," and observe performance (Steps 5-8).	5. O	(Eubble should center) Tries to center bubble by turning micro knot. Divides micro read by 2 and sets value on micro scale. Centers the bubble.		
3•	Announce "DEMONSTRATE AND EXPLAIN A MINUS CORRECTION TO GUNNER'S QUADRANT," and observe performance (Steps 9-14).	11.	until bubble centers. Subtracts micro read from -10 and divides by 2.		
4.	Elevate or depress main gun, then announce "DE-TERMINE AMOUNT OF ELEVA-TION OR DEPRESSION USING THE GUNNER'S QUADRANT," and observe performance (Steps 15-18).	13. 14. 15. 16.	for-end to verify.  (Lubble should center)  Places quad shoes on scrited narks.  Freshes index plunger and moves index arm until bubble is almost centered.  Centers tutble in vial by turning micro anob. Adds together value on elev scale and micro.		
5.	Score total performance.		scale.		
	GC		1.0 60		

CREW POSITION: GUNNER

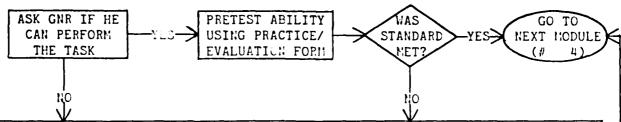
TRAINING MODULE NO. 3

TASK: TEST AND ADJUST MISAS ELEVATION QUADRANT. TIME: 15 MINUTES

PREREQUISITE TASKS: OPERATE MIA1 GUNNER'S QUADRANT.

TRAINING REFERENCES: FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; 1 M1A1 GUNNER'S QUADRANT; 1 PHILLIPS SCREWDRIVER.



### TRAIN THE TASK

### INTRODUCE

STATES COLOUR SUBJECT BOOKSON CONTROL

- 1. State performance task and training standards in your own words.
- 2. Identify components of N13A3 Elevation Quadrant.
- State purpose: Permit determination of main gun elevation or depression in mils.

# DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Level main gun using M1A1 Gunner's quadrant (add in breech ring correction factor so that QE readings can be used on another tank similarly calibrated).
- 3. Check and zero the elevation scale, explaining each step as you do it.
- 4. Check and zero the micrometer scale, explaining each step as you do it.

### PRACTICE

- Place both elevation scale and micrometer scale out of adjustment.
- 2. Have Gunner test and adjust mounted elevation quadrant, stating each step as he performs it.
- 3. Provide prompts/cues while reinforcing correct responses.
- 4. Repeat steps 1-3 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. PEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Test and adjusts M13A3 Elevation Quadrant correctly by leveling main gun using M1A1 Gunner's quadrant, then checking and zeroing elevation scale and micrometer scale.



I	NS	T	RU	CT	OR

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "TEST AND ADJUST M13A3 ELEVATION QUADRANT," and observe performance (Steps 1-5).	1.	Levels main gun using M1A1 gunner's quadrant, adding in breech ring correction factor without disturbing lay of gun, centers bubble in leveling vial by rotating micrometer knob.		
2.	Preset to ensure scale is not at zero so that GNR will demonstrate the procedure.	2.	Checks elevation scale. If not at zero, loosens screw at each end of scale, slips it until zero is indexed, and tightens screws.		
3.	Preset to ensure scale is not at zero.	3.	Checks micrometer scale. If not at zero, loosens 3 screws on elevation knob and slips the scale to zero.		
		4.	Checks the bubble in leveling vial to insure it is still centered, then tightens 3 screws on elevation knob.		
		5.	If bubble is not centered, repeats the above procedure.		
4.	Score total performance.				
	GO [		ко бо		

TRAINING MODULE NO.

TASK: PERFORM A ZERO PRESSURE CHECK.

TIME: 30 MINUTES

PREREQUISITE TASKS: TRAVERSE TURRET U

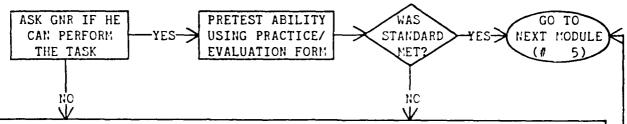
TRAVERSE TURRET USING POWER ALD MANUAL CONTROLS:

ELEVATE/DEPRESS MAIN GUN USING POWER AND MANUAL

CONTROLS.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK, OR TURRET TRAINER.



### TRAIN THE TASK

# INTRODUCE

ANNA STATE OF THE 
- 1. State performance task and training standards in your own words.
- 2. Explain that task is done as part of preparing station for operation.
- Emphasize safety requirements (warnings).

# DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- Walk-talk Gunner through each step of procedure (use Practice/Evaluation Form).
- 3. Highlight Gunner performance checks, e.g., proper oil level, indicator lights, etc.
- 4. Repeat the zero pressure check procedure, without interruption.

### PRACTICE

- 1. Have the Gunner perform each step in performing a zero pressure check as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- 3. Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with Gunner's performance.

- Instruct Gunner on performance evaluation procedure and standards.
- 2. EEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Performs a zero pressure check correctly and without delay.

	INSTRUCTOR		GUNNER	
	BEGIN EXERCISE:		GO NO GO	_
1.	Make sure engine is run- ning, announce "PERFORM ZERO PRESSURE CHECK," and	1.	Announces POWER to alert the crew.	-
		2.	Checks oil in reservoir:  a. Ensures turret    power is off.  b. LOCKS turret (LDR).  c. Presses in/holds    power solenoid    plunger.  d. Moves power control    handle left or right    until accumulator    pressure gage reads    zero.  e. Watches gages slowly    descend to 525 psi    (+ 25 psi), then    rapidly go to zero.	-
			f. Removes dipstick and checks for proper oil level.	
	(Provide assistance by performing LDR duties).	3.	Unlocks turret (LDR).	-
		4.	Elevates/traverses turret manually.	-
		5.	Announces "POWER," and turns ELEV/TRAV/POWER control to ON.	-
		٤.	Elevates/traverses turret in power.	-
		7.	Turns on STAB POWER switch and waits 15 seconds.	-
		.3	Announces "STAE," and turns on STAE switch.	-
2.	Score total performance.	9.	Hulls elevation and/or traverse drift.	-

TASK: PLACE THE TTS INTO OPERATION.

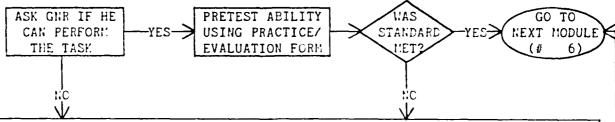
TRAINING MODULE NO.

TIME: 30 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10; FM: 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



#### TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain that task is performed as part of preparing station for operation.
- 3. Emphasize safety requirements (warnings).

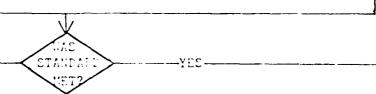
# DEMONSTRATE

- 1. Position yourself in Gunner seat with Gunner observing from Loader station.
- Walk/talk Gunner through each step of procedure (use Practice/Evaluation Form).
- 3. Highlight Gunner performance checks i.e., correct operation, indicator lights, etc.
- 4. Repeat the procedure for placing TTS into operation, without interruption.

### PRACTICE

- 1. Have the Gunner perform each step in placing the TTS into operation as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance: gradually remove.
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat steps 1-3 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. TEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Places TTS into operation correctly and without delay.



# INSTRUCTOR

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "PLACE THE TTS INTO OPERATION," and observe performance (steps 1-14).		Sets switches:  • MASTER BATTERY to CN.  • LRF MODE to TEST.  • Computer PCWER to CN.  • 4CB1 set to ON.  • TTS MODE to STBY.  Opens ballistic shield cover.  Adjusts daylight channel headrest.		
		4.	Ensures unity power window view is clear and adjusts RTCL.		
		5.	Ensures day channel view is clear and adjust RTCL.		
	(Done when COOL lamp goes	6. 7	•		
	out)	, .	• TTS MODE to CN. • BITE to LAMP TEST. • (All 6 lights "CN"). • BITE to SYS TEST (All 6 lights "CFF"). • FIELD OF VIEW to MAR. • GUMBER/CMDR to GUMBER		
			Manually trav/elevates to selected target.		
		9.	Adjusts:  • BRIGHT AND CONTRASTS.  • THEFMAL CHANNEL RANGE FOCUS.  • POLARITY.  • NAR reticle.		
		1.	Verifies that changing POLARITY causes WET or ELK HOT lamp to light.		
		11.	Moves FIELD OF VIEW to WIDE. (If necessary, readjusts ERIGHT and CONTRASTS controls).		
		12.	Verifies that NFCV is visible. (If necessary adjusts RTCL control).	,	
		13.	Looks thru commander's eyepiece for same display.		
2.	Score total performance.	14.	• •		
	GO		ne ge		

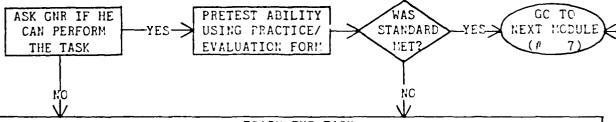
PERFORM A COMPUTER SELF-TEST.

TRAINING MODULE NO.

TIME: 30 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



### TRAIN THE TASK

# INTRODUCE

- State performance task and training standards in your own words.
- Explain that this task is part of preparing station for operation.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

SOUND ACCORD BACKSON BACKSON BOOKS TO SOUND BOOKSON BOOKSON BOOKSON BOOKSON BOOKSON BOOKSON

- Position yourself in Gunner seat with Gunner observing from Loader station.
- Walk/talk Gunner through each step of procedure (use Practice/Evaluation 2. Form).
- Highlight the warning that computer self-test cannot be performed 3. Jimultaneously with the LRF self-test.
- Pagest the entire computer self-test procedure, without interruption.

### PRACTICE |

- Have the Gunner perform each step in performing a computer self-test as you announce them (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance; gradually remove.
- Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with Gunner's performance.

- Instruct Gunner on performance evaluation procedure and standards.
- EEGIN EXERCISE as provided on Fractice/Evaluation Form.
- Performs a computer self-test correctly and without Test to Standard: delay.



INSTRUCTOR

# GUMMER

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "PERFORM COMPUTER SELF-TEST." and observe	1.	Places MODE switch to TEST.		
	performance (steps 1-17).	2.	Places MASTER BATTERY		
		_	switch to Ch.		
		3.	Places POWER switch to ON (light illuminates).	L	
		4.	Adjusts LIGHTS control		
		•	to normal brightness.		
		5.	Verifies operation of		
			ERIGHT/DIN control on ASU.		
		6.	Turns/holds LAMP/MOF-		
			MAL/SYSTEM switch to		
			LAMP until all SELF-		
			TEST and SENSON FAIL indicators light.		
		7.	Places MANUAL/RANGE-		
		•	FINDER to MANUAL.		
		8.	Turns/holds LAMP/NCE-		
			MAL/SYSTEM switch to		
			SYSTEM until CM indi-		
		9.	cator lights. Verifies the STATION-		[]
		7•	ARY or MCVING is il-	I	h
			luminated on each ASU.		
		10.	Places MOVING/STATION-		
			ARY on GNR's ASU to		
			STATICNARY (both	*•	
		11.	units light). Places MOVING/STATION-		
		•	ARY on TC's ASU to		<u></u>
			MOVING (both units		
			light).	·	
		12.			<u> </u>
			GNP's ASU switches (each becomes trighter)	١	
		13.	Presses each of four	' •	
		~ •	TC's ASU switches.		
		14.	Places MANUAL/FANGE-		
		4.5	FINDER to RANGE-FINDER.	•	
		15.	Turns/holds LAMF/NCR- MAL/SYSTEM to SYSTEM	L	L
			until CK indicator		
			lights.		
		16.	Verifies that LANGE		
			and filthing display		
_	Compared to the Landson Compared to the Compared to the Landson Compared to the Compared to th	17	1050 $\pm$ 1, and 2. Tepests stops 15 and	i	
2.	Score total performance.	11.	16 for recaining 3	L	L
			ands.		
			_		
	GC		10 60		
	T		,		

TRAINING MODULE NO.

TASK: PREPARE TO BORESIGHT THE 105-MM MAIN GUN

TIME: 15 MINUTES

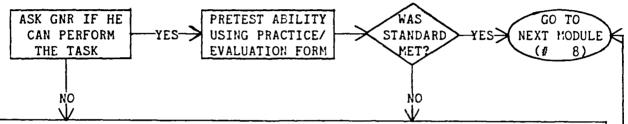
WITH M26 MUZZLE BORESIGHT DEVICE.

PREREQUISITE TASKS: PERFORM LRF SELF-TEST (TC); PERFORM COMPUTER

SELF-TEST; PERFORM PREPARE-TO-FIRE CHECKS. : TM 9-2350-253-10; FM 17-12-3; TRADOC TT 17-12-1.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3; TRADOC TT 17-12-SUPPORT REQUIREMENTS: 1 M60A3 TANK; 1 M26 MUZZLE BORESIGHT DEVICE:

BORESIGHT PANEL.



#### TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standards in your own words.
- Describe/review the purpose of boresight and use of muzzle boresight devices.
- 3. Emphasize safety requirements (warnings).

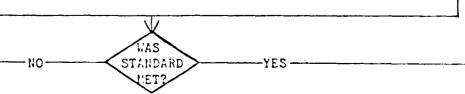
# DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Walk/talk the Gunner through each step of boresight procedure (use Practice/Evaluation Form).
- 3. Identify remaining task to be performed (Training Modules 8 thru 11).

# PRACTICE

- 1. Have the Gunner perform each step in boresighting the 105-MM gun as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat steps 1-3 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Boresights the 105-HH gun correctly and without delay.



# INSTRUCTOR

COOL PROPERTY PROPERTY

# GUNNER

	BEGIN EXERCISE:			60	NO GO
	******* TO PORE	•	Ensures prepare-to-fire		
١.	Announce "PREPARE TO BORE-	١.	checks are completed,	الـــــا	L
	SIGHT 105MM MAIN GUN WITH	••	tank is level (DRV).		
	M26 MUZZLE BORESIGHT DEVICE		Ensures computer and		
	and observe performance	2.	LRF self-test completed.		L
	(steps 1-19).	2		·	
	(Perform LDR task.)	3.	Opens breech. Ensures engine is off		L
	(Perform DRV task.)	4.	and MASTER BATTERY		
			switch is ON.		<u></u>
		_	• • • • • • • • • • • • • • • • • • • •		
		5.	target (or known tank	LJ	L
			to target range).		
		,	Ensures Ballistic Drive		
		0.	Coupling is LOCKED.	L	L
		7	Ensures FILTER SELECT		
		7.	lever is LOCKED.	<u></u>	
		0	Sets POWER switch on		
		.3	GCU to ON.	L	L
		^	Sets ELEV/TRAV switch	<del></del>	Γ
		9.		L	L
		10	to OFF. Set OFF/STAB switch	<u></u>	
		10.	to OFF.		
		11			
		11.	to maximum depression	ليسيبا	L
			(firm resistance is		
			felt).		
		10			
		12.	switch to MANUAL.	' ا	
		10	Dials known tank-to-tar		
		13.	Eet RANGE X100 dial (or		
			ranges using LRF).		
	(n. n. ma hanla)	1 1)		, [	<u> </u>
	(Perform TC task.)	14.	TEST (Range display	·	
			shows 0000).		
		1 =	Sets NORMAL/ECRESIGHT		
		15.	switch to ECRESIGHT.	L	L
		16.	Sets AZIMUTH/ELEVATION		
		10.	knob to 0.	اـــــا	L
		17.	Sets Crosswind Sensor		<u> </u>
		' ( •	switch to MANUAL.	L	<u> </u>
		18.		1	
		10.	to 0.	*	L
	(Perform LDR task.)	19.		h	
	(Periorm Lun task.)	19.	locating block at	· ·	L
			12 o'clock position).		
			12 0 clock position,		
_	. Score total performance.				
2	. Score cotal performance.				
	<del></del>				

1:0 GO [

GO \_\_\_\_

TRAINING MODULE NO.

TASK: BORESIGHT DAYLIGHT CHANNEL OF TTS.

TIME: 15 MINUTES

PREREQUISITE TASKS:

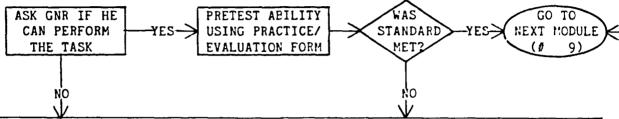
PREPARE TO BORESIGHT 105-MM MAIN GUN WITH M26

MUZZLE BORESIGHT DEVICE.

TM 9-2350-253-10; FM 17-12-1; TRADOC TT 17-12-1. TRAINING REFERENCES: SUPPORT REQUIREMENTS:

1 M60A3 TANK: 1 M26 MUZZLE BORESIGHT DEVICE:

1 BORESIGHT PANEL.



#### TRAIN THE TASK

# INTRODUCE

- State performance task and training standards in your own words.
- 2. Describe/review the prerequisite task (see above).
- Emphasize safety requirements (warnings).

# DEMONSTRATE

- 1. Position yourself in Gunner seat with Gunner observing form Loader
- 2. Walk/talk Gunner through each step of Boresight procedure (use Practice/Evaluation Form).
- 3. Highlight requirement to make all main gun movements with manual controls ONLY.

### PRACTICE

- 1. Have the Gunner perform each step in boresighting day channel of TTS as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with Gunner's performance.

#### EVALUATE

- 1. Instruct Gunner on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Boresight daylight channel of TTS correctly and without delay.

WAS STANDARD

IN	ST	RU	CT	OR

Been reserve systems accepts because and one

DAYLIGHT CHANNEL OF TTS," and observe performance (steps 1-12).  (Perform LDR task.)  2. Ensure reticle lay is from left to right, low to high. (Have GNR repeat steps 1-4 if boresight dot is not on target aiming point).  (Perform LDR task.)	BEGIN EXERCISE:			GO	NO GO	
(Perform LDR task.)  3. Has LDR look into M26 while manually elevating/traversing to align N26 boresight dot on defined target aiming point.  2. Ensure reticle lay is from left to right, low to high. (Have GNR repeat steps 1-4 if boresight dot is not on target aiming point).  5. Ensures boresight knobs are seated them slips EL/AZ scales to 4 and 4.  (Perform LDR task.)  6. Has LDR ensure N26 boresight dot is on target aiming point.  7. Nanually traverses/depresses off target then traverses/elevates canto target using sight reticle aiming dot.  (Perform LDR task.)  8. Has LDR check N26 for gunner lay error, if any.  9. Has LDR remove/rotate N26 to 6 o'clock position.  10. Without moving boresight non-alignment procedures.  4. Score total performance.  12. Emoves the N26.	۱.	DAYLIGHT CHANNEL OF TTS," and observe performance	1.	until reticle is		
(Perform LDR task.)  3. Has LDR look into M26 while manually elevating/traversing to align W26 boresight dot on defined target aiming point.  2. Ensure reticle lay is from left to right, low to high. (Have GNR repeat steps 1-4 if boresight dot is not on target aiming point).  5. Ensures boresight knobs are seated them slips EL/AZ scales to 4 and 4.  (Perform LDR task.)  6. Has LDR ensure W26 bore-sight varies off target then traverses/elevates cante target using sight reticle aiming dot.  (Perform LDR task.)  8. (Perform LDR task.)  8. Has LDR remove/rotate manually elevation. Without moving boresight non-alignment procedures.  4. Score total performance.  12. Ensures sight reticle aiming dot has not moved.  13. Ensures sight reticle aiming dot has not moved.		(steps 1-12).	2.			
Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target aiming point).   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target aiming point).   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target   aiming point.   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target   aiming point.   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target   aiming point.   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   to lay reticle on target   aiming point.   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   day reticle on target   aiming point.   Sights thru eyepiece   while pulling/rotating   day channel EL/AZ knobs   day channel		(Perform LDR task.)	3.	Has LDR look into M26 while manually elevat- ing/traversing to align M26 boresight dot on defined target aiming		
get aiming point.  5. Ensures boresight knobs are seated them slips EL/AZ scales to 4 and 4.  (Perform LDR task.)  6. Has LDR ensure M26 bore—sight dot is on target aiming point.  7. Manually traverses/de—presses off target then traverses/elevates ento target using sight reticle aiming dot.  (Perform LDR task.)  8. Has LDR check M26 for gunner lay error, if any.  9. Has LDR remove/rotate M26 to 6 o'clock position.  If not, show/tell GNR how to perform M26 boresight non-alignment procedures.  4. Score total performance.  12. Ensures boresight knobs are seated them slips EL/AZ scales to 4 and 4.  13. Ensures sight reticle aiming dot has not moved.  14. Score total performance.  15. Ensures the M26.	2.	left to right, low to high. (Have GNR repeat steps 1-4	-	Sights thru eyepiece while pulling/rotating day channel EL/AZ knobs		
are seated them slips EL/AZ scales to 4 and 4.  6. Has LDR ensure 1:26 bore— sight dot is on target aiming point.  7. Manually traverses/de— presses off target then traverses/elevates ente target using sight reticle aiming dot.  (Perform LDR task.)  8. Has LDR check M26 for gunner lay error, if any.  9. Has LDR remove/rotate M26 to 6 o'clock posi— tion.  10. Without moving toresight knobs, slips scales to 4 and 4.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance.  12. Enmoves the M26.			_	get aiming point.	<del></del>	
(Perform LDR task.)  6. Has LDR ensure M26 bore—sight dot is on target aiming point.  7. Manually traverses/de—presses off target then traverses/elevates ente target using sight reticle aiming dot.  (Perform LDR task.)  8. Has LDR check M26 for gunner lay error, if any.  Reticle dot should align. If not, show/tell GNR how to perform M26 boresight non-alignment procedures.  10. Without moving boresight knobs, slips scales to 4 and 4.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance.  12. Femoves the M26.			5.	are seated them slips	L	L
presses off target then traverses/elevates ente target using sight reticle aiming dot.  (Perform LDR task.)  8. Has LDR check H26 for gunner lay error, if any.  3. (Perform LDR task.)  Reticle dot should align.  If not, show/tell GNR how to perform H26 boresight non-alignment procedures.  10. Without moving boresight knobs, slips scales to 4 and 4.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance.  12. Removes the H26.		(Perform LDR task.)	6.	Has LDR ensure 126 boresight dot is on target		
gunner lay error, if any.  3. (Perform LDR task.) Reticle dot should align. If not, show/tell GNR how to perform M26 boresight non-alignment procedures.  4 and 4.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance.  12. Removes the M26.			7.	presses off target then traverses/elevates cnto target using sight		
Reticle dot should align.  If not, show/tell GNR how to perform M26 boresight non-alignment procedures.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance.  12. Has LDR remove/rotate M26 to 6 o'clock position.  Mithout moving boresight knobs, slips scales to 4 and 4.  11. Ensures sight reticle aiming dot has not moved.		(Perform LDR task.)	8.	gunner lay error, if		
non-alignment procedures. knobs, slips scales to 4 and 4.  11. Ensures sight reticle aiming dot has not moved.  4. Score total performance. 12. Removes the M26.	3.	Reticle dot should align.	9.	Has LDR remove/rotate H26 to 6 o'clock posi-		
11. Ensures sight reticle aiming dot has not moved. 4. Score total performance. 12. Eemoves the M26.			10.	knobs, slips scales to		
4. Score total performance. 12. Removes the M26.			11.	Ensures sight reticle aiming dot has not		
GO NC GO	4.	Score total performance.	12.			
		со		NC GO		

PREREQUISITE TASKS:

TASK: ADJUST/REFER THERMAL CHANNEL OF TTS FOR TRAINING MODULE NO.

BORESIGHT.

TIME: 10 MINUTES

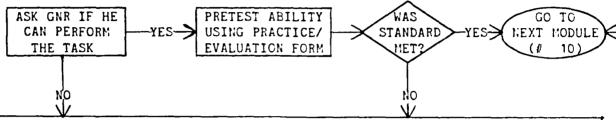
PREPARE TO BORESIGHT 105-MM MAIN GUN WITH M26 MUZZLE

BORESIGHT DEVICE: BORESIGHT DAYLIGHT CHANNEL OF TTS:

ADJUST/REFER 1:105D TELESCOPE FOR BORESIGHT.

TRAINING REFERENCES: TM 9-2350-253-10: FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK.



#### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- Describe/review the prerequisite tasks (see above). 2.
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in Gunner seat with Gunner observing from Loader
- Willimital: through each step of adjust/refer thermal channel of TTS procedure (use Practice/Evaluation Form).
- 3. Point out why TTS should be placed in STBY prior to task performance. i.e., 10 minute warm-up period.

# PRACTICE

- 1. Have the Gunner perform each step of the thermal channel adjust/referral procedure (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with Gunner's performance.

- Instruct Gunner on performance evaluation procedure and standards. 1.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Adjusts/refers thermal channel of TTS for toresight correctly and without delay.

INSTRUCTOR
------------

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "ADJUST/REFER THERMAL CHANNEL OF TTS," and observe performance (steps 1-10).	1.	Ensures daylight chan- nel reticle is on de- fined target aiming point.		
	(Omit GNR Step 2 if performed following practice.)	2.	Sets TTS MODE switch to ON; when COOL light goes OFF, system is operational.		
		3.	Adjusts RTCL control until reticle is visible.		
		4.	Sets thermal channel range FOCUS for sharpest view.		
		5.	•		
		6.	Sets POLARITY switch for best field of view.		
		7.	Sets TTS field of view to MAR.		L
		8.	Moves sight reticle aiming point using thermal channel boresight EL/AZ knobs.		
		9.	Slips scales to 4 and 4.		
2.	Score total performance.	10.	•		
	GC F		::o GC	_	

TRAINING MODULE NO. 10

TASK: ADJUST/REFER M105D TELESCOPE FOR BORESIGHT.TIME: 10 MINUTES

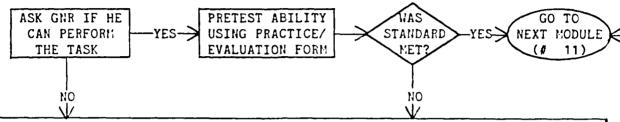
PREREQUISITE TASKS: PREPARE TO BORESIGHT THE 105-MM MAIN GUN WITH M26

MUZZLE BORESIGHT DEVICE; BORESIGHT DAYLIGHT CHANNEL

OF TTS.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK.



# TRAIN THE TASK

# INTRODUCE

CALCORD DIVINICA CALCORD CONTROL SYNTHE

NOONE CONTROL BANKAGA SAKASAA

- 1. State performance task and training standards in your own words.
- 2. Describe/review the prerequisite tasks (see above).
- Emphasize safety requirements/warnings).

# DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- Walk/talk Gunner through each step of adjust/referral of M105D telescope procedure (use Practice/Evaluation Form).
- Repeat entire procedure, without interruption (if necessary).

#### PRACTICE

- 1. Have the Gunner perform each step of the M105D telescope referral procedure as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance: gradually remove.
- 3. Critique performance while reinforcing correct responses.
- Repeat steps 1-3 until satisfied with Gunner's performance...

- Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EMERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Adjusts/refers M105D telescope for boresight correctly and without delay.



	INSTRUCTOR		GUNNER			
	BEGIN EXERCISE:			GO	NO GO	]
1.	Announce "ADJUST/REFER the M105D TELESCOPE," and observe performance (steps 1-7).		Ensures daylight chan- nel reticle is on de- fined target aiming point.			
		2.	Moves M105D reticle selector knob to the full left or right position.			
		3•	Unlocks M105D telescope boresight knobs.			
		4.	Moves boresight cross on target aiming point using M105D telescope ELEV/TRAV boresight knobs.			•
		5.	Locks M105D telescope boresight knobs.			
		6.	Slips scales to 3 and 3.			
? <u>.</u>	Score total performance.	7.	Ensures M105D telescope boresight cross has not moved off target aiming point.			

110 GO [

GO [

CREW POSITION: GUNNER

TASK: APPLY COMPUTER CORRECTION FACTORS.

PREREQUISITE TASKS: PREPARE TO BORESIGHT THE 105-MM MAIN GUN WITH M26

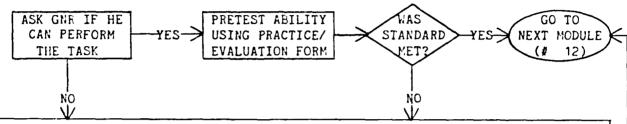
MUZZLE BORESIGHT DEVICE; BORESIGHT DAYLIGHT CHANNEL

OF TTS; ADJUST/REFER M105D TELESCOPE FOR BORESIGHT;

ADJUST/REFER THERMAL CHANNEL OF TTS FOR BORESIGHT.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; 1 COMPUTER CORRECTIONS FACTORS TABLE.



# TRAIN THE TASK

# INTRODUCE

TO CONTROL TO CONTROL

- 1. State performance task and training standards in your own words.
- 2. Describe/review the prerequisite task (see above).
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Walk/talk Unlough each step of procedure for applying computer correction factors (use Practice/Evaluation Form).
- 3. Highlight the point that all knobs must come out of detent positions.

# PRACTICE

- 1. Have the Gunner perform each step of the computer correction procedure as you announce them (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat steps 1-3 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Applies computer correction factors correctly and without delay.



INSTRUCTOR

	BEGIN EXERCISE:			GO	110 GO
	A		S. A. MODUAL (DODGGTONE		
1.	Announce "APPLY COMPUTER CORRECTION FACTORS," and	1.	Sets NORMAL/BCRESIGHT switch to NORMAL.		
	observe performance (steps	2.			
	1-12).	٠.	to OFF.		<b></b>
		3.	Opens hydraulic press		
			dump valve for 10		
		Ju	seconds then closes. Sets ELEV/TRAV knobs		
		4.	to +3.5 then +3.5 and		
			back to "O" without		
			overtravel.		
		5.	Indexes an armo (select		
		,	one type).		
		t.	Lays daylight channel sight reticle aiming		
			point on target using		
			manual controls.		
		7.	Makes mental notation		
			of M105D reticle posi-		
		.3	tion and aiming point. Sets appropriate ammo		
		0.	zero knob to -3.5 then		L
			to +3.5.		
		9.			
			factors in Table (below	)	
	(Note: If reticle has	10.	for each type of ammo. Checks aiming dot to		
	moved, the procedure must		ensure it has moved up	L	L
	be repeated until fault		for a minus elevation	٠.	
	has been corrected.)		correction, down for a		
			plus elevation correction.		
		11.	•	Γ	
			ensure it has not moved		<del></del>
2.	Score total performance.	12.	·		
			each type of ammo.		
	<u> </u>				
	GO [		%C GO		
r	COMPUTER	COPP	ECTION FACTORS TALLE!		
1	<del>oct. orga</del>	001.11	LOTEN TACKET INTEL		
	<u>C K1.01</u>		AZI: UTH	ELEVATIO	3
1	non Zero		C	0	
	S (1392AZZ11728) S (when firing TPDS (1724) <sup>2</sup>		r	<del>-</del> •3	
	S (11735)		C	2	
FSD	S (1:774)		С	3	
	<u>(1:3</u> 93A2)	_	C	+1.0	
	rrection factors do not app		111651		
1 625	Do motory quitch is set to !	100			

TRAINING MODULE NO.

TASK: PERFORM PREPARE-TO-FIRE CHECKS.

TIME: 30 MINUTES

PREREQUISITE TASKS: PERFORM COMPUTER

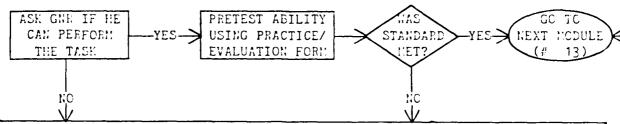
PERFORM COMPUTER SELF-TEST; BORESIGHT TTS AND TELE-

SCOPE; OPERATE MIAI GUNNER'S QUADRANT; OPERATE M28E2 AZIMUTH INDICATOR; TEST AND ADJUST M13A3 ELEVATION

QUADRANT.

TRAINING REFERENCES: TM 9-2350-253-10 (TABLE 2-3).

SUPPORT REQUIREMENTS: 1 M60A3 TANK; TM 9-2350-253-10 (TABLE 2-3).



# TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standards in your own words.
- Explain how task is performed in cooperation with entire crew.
- Emphasize safety requirements (warnings).

# DEMONSTRATE

- 1. Locate prepare-to-fire procedure (Table 2-3) in Th 9-2350-253-10.
- Perform each step as listed in Table 2-3 (or use Practice/Evaluation Form).
- 3. Describe where/how other crewmember tasks interact in procedure.

### PRACTICE

- 1. Have the Gunner perform each step in prepare-to-fire procedure as stated in Table 2-3 of TM 9-2350-253-10 (or use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- 3. Critique performance while reinforcing correct responses.
- 4. Rejeat steps 1-3 until satisfied with Gunner's performance.

- 1. Instruct Cunner on performance evaluation procedure and standards.
- 2. DEGIN FREECISE as provided on Practice/Evaluation Form.
- Test to Standard: Performs prepare-to-fire checks correctly and without delay.

INSTRUCTOR

	EEGIN EXERCISE:		i	GO	110 GO
1.	Announce "PERFORM PREPARE-	1.	Cleans/inspects interior		
•	FIRE-CHECKS," and observe	١.	sights.	L	
	performance (steps 1-3).	2.	Checks operation of		
	personmance (boops 1 5).	-•	ballistic shield.		L
	(Turn MASTER BATTERY to	3.	Checks instrument		
	ON)	٥,	lights.		
2.	Announce "CHECK FIRING	4.	Checks all firing trig-		[]
	SWITCHES," start engine,		gers, and announces on		
	insert circuit tester, and		firing "CN THE WAY."		
	observe performance (step 4	).			
3.	Announce "CHECK GUN CON-	5.	Announce PCWER to alert		
	TRCLS," and observe per-		crew.		
	formance (steps 5-12).	6.	Checks oil in power		
			control system.		
	(Unlock turret)	7.	Unlocks turret, turns		
			ELEV/TRAV/ PCWER to ON.		
		8.	Checks power elev/trav		
			and magnetic brake/elev		
			shut off valve.		
		9.	Rechecks oil in power		L
	(0) 10 10		control system.		
	(Steps 10 and 12 are op-	10.	Checks azimuth indicator	لـــــا	
	tional since previously trained)	• •	for accuracy/slippage.		
	crained)	11.	Turns ELEV/TRAV/POWER	L	L
		12.	switch to OFF. Checks elevation quad-		<del></del>
		12.	rant.		
4.	Announce "CHECK GUN STAB."	13	Ensures STAB ELECT and		
•	turn Oli circuit breakers,		POWER PACK BLOWER MOTOR		L
	and observe performance		CBs, and CUPOLA POWER		
	(steps 13-18). (If opera-		switch is ON.		
	tional, GNR answers	14.	Turns ELEV/TRAV/POWER		
	"TURRENT STAFILIZED.")		to ON, sets POWER to ON,		L
			then after 15 sec sets		
			STAE to CN.		
		15.	Mulls traverse and/or		
			elevation drift.		
		16.			
_			power control handles.		p
5.	Depress emergency STAE	17.	Ensures STAE CN is not		L
	SHUT-OFF switch.		lit, turns STAE CN		
		1.0	to OFF.		
		18.	Turns PCMER to OFF and		L
6.	Cormand "CHECK FIRE CON-	10	announces "STAE CFF." Ferforms computer self-		<u></u>
· •	TROL," and observe perfor-	19.	test, then boresights	L	L
	nance step 19. (Note Step		(passive) periscope or		
	19 and 20 are optional).		TTS and telescope.		
7.	Announce "ILDEX CLLUT."	20.	Presses SAFOT on ASU.		
£.	Announce "SET TO STATION-	21.	Sets control to	L	
- •	William State of Stat	•	STATICNARY.		
9.	Provide data (optional)	22.	Enters ballistic data		<u> </u>
	and score total performance		in corputer.		
	,	-	•	L	

TRACK TARGETS USING THE POWER CONTROL

TRAINING MODULE NO.

TIME: 30 MINUTES

PREREQUISITE TASKS:

HANDLES.

TRAVERSE TURRET USING POWER AND MANUAL CONTROLS;

ELEVATE/DEPRESS THE MAIN GUN USING POWER AND MANUAL

CONTROLS.

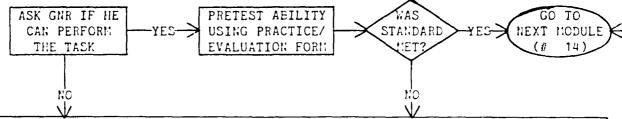
TRAINING REFERENCES: FM 17-12-3: TM 9-2350-253-10.

SUPPORT REQUIREMENTS:

1 M60A3 TANK OR TURRET TRAINER; 1 SMAKE BOARD OR

OR SIMILAR TRAINING AID; MOVING TAPGETS (CARS.

TRUCKS, ETC.); 1 1:55 LASER.



### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite task (see above).
- 3. Emphasize safety requirements (warnings).

# DEMCHSTRATE

- 1. Position yourself in Gunner seat with Gunner observing from Loader/TC station.
- 2. Lay the sight reticle at beginning of snakeboard (or other) and proceed slowly to the other end without hesitation or jerky movements.
- 3. Lay the sigh reticle on a moving target (center of mass) and track.
- 4. Fire the N55 laser at moving targets (if possible) to simulate main gun Ill iline
- 5. Point out ways to improve tracking and lasing accuracy based on your experience.

### PRACTICE

- 1. Position Gunner in Gunner seat while you observe from TC station.
- 2. Have the Gunner proceed back and forth through the snakeboard at a slow. steady pace.
- 3. Provide prompts/cues to guide performance.
- 4. Critique performance while reinforcing correct responses.
- 5. Have the Gunner track available moving targets (slow-redium-fast) while maintaining a center of visible mass aim.
- Eave the Gunner fire the MSS laser at the moving targets (on Command "FIRE") to simulate main gun firing.
- Repeat steps 2-6 until satisfied with Gunner's performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Tractice/Evaluation Form.
- Test to Standard: Tracks targets shoothly while raintaining center of visible mass aim.

RECORD RECORDED ASSESSED RECORDED ASSESSED

	INSTRUCTOR		GUNNER		
	BEGIN EXERCISE:			GO	NO GO
1.	Position the sight reticle at start of snakeboard, announce "GO," and observe performance (steps 1-4).	1.	Engages palm switches on power control handles.		
	pertormance (cooper, 17)	2.	Manipulates power con- trol handles left/ right, forward/back while advancing through the snakeboard.		
		3.	Traverses through the snakeboard at a steady rate without jerky movements or stopping.	-	
		4.	Maintains sight reticle inside snakeboard out- line or on center of target visible mass.	:	
2.	Command "FIRE" and observe 155 laser dot (laser dot strikes target).	5.	Announces "CN THE WAY," squeezes the trigger(s) to fire M55 laser, and "hits" the moving target (center of visible mass).		
٦.	Reneat steps 1-2 for three separate trials and score total performance.	6.	Repeats steps 1-5 above		
	TRIAL 1		TRIAL 2 TI	RIAL 3	
	GC 1:0 GC	C	GO 1:0 GC GO	NO GO	

CREW POSITION: GUNNER
TASK: APPLY AUTO AND MANUAL LEAD.

TRAINING MODULE NO.

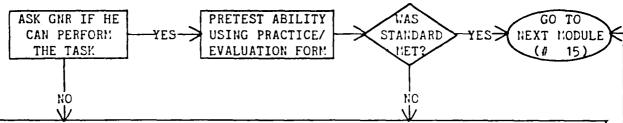
TIME: 30 MINUTES

PREREQUISITE TASKS: TRACK TARGETS USING THE POWER CONTROL HANDLES.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; LASER SAFE RANGE

AREA: MOVING TARGET.



#### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite tasks (see above).
- 3. Emphasize safety requirements (warnings).

#### DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader/TC station.
- Place POWER/STAB switch in STAB and auto lase/lead to a moving target.
- 3. Place POWER/STAE switch in POWER and auto lase-lead to a moving target, emphasize that 1.5 seconds of tracking is required.
- 4. Walk/talk Gunner through reticle offset and target relay requirement.
- 5. Position the crosshairs of each sight reticle on a moving target to show what/how manual leads are applied for SABOT, HEAT, HEP/WP ammunition.

#### PRACTICE

- 1. Have the Gunner apply auto-lead to a moving target in STAB Mode.
- 2. Provide prompts/cues to guide performance.
- 3. Critique performance while reinforcing correct responses.
- 4. Have the Gunner apply auto-lead to a moving target in PCNER-mode.
- Repeats steps 2-3.
- 6. Have the Gunner show then demonstrate applying manual leads for each sight reticle and type of main gun ammo.
- Repeat steps 1-6 until satisfied with Gunner's performance.

### EVALUATE

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Applies auto and manual leads correctly and without delay.

STANDARD YES

# INSTRUCTOR

	BEGIN EXERCISE:			GO	NO GO
1.	Place POWER/STAB switch in STAB, lay gun on moving target, announce "APPLY	1.	Grasps power control handles while viewing through sight.		
	AUTO LEAD," and observe performance (steps 1-5).	2.	Lays aiming cross slightly below center of visible mass, using G-pattern.		
		3.	Tracks target smoothly for at least 1.5 seconds		
		4.	Announces "LASING," and depresses LASE/LEAD button.		
		5.	Lays aiming cross on center of target visible mass.		
2.	Place POWER/STAE switch in POWER, lay gun on moving target, announce "APPLY AUTO LEAD," and observe performance (steps 1-5).	6.	Repeats steps 1-5 above, correcting for reticle offset.		
3.	Lay gun on moving target, announce "APPLY MANUAL LEA FOR SAEOT (THEN HEAT, HEP/WP)," and observe		Grasps power control handles while viewing through sight.		
	performance (steps 7-9).	.3	Lays aiming cross on center of target visible mass, using G-pattern.		
		9.	Applies 2 1/2 mil lead for APDS, 5 mils for HEAT, and 7 1/2 mils for HEP/WP regardless of target speed.		
4.	Repeat step 3 above for M105D telescope reticle.	10.	Fepeats steps 7-9 atove, correcting for reticle differences.		
5.	Score total performance.				
	GO [		::0 G0		

TASK: ENGAGE STATIONARY MAIN GUN TARGETS IN

TRAINING MODULE NO.

TIME: 30 MINUTES

NORMAL MODE.

PREREQUISITE TASKS:

TRAVERSE TURRET USING POWER AND MANUAL CONTROLS:

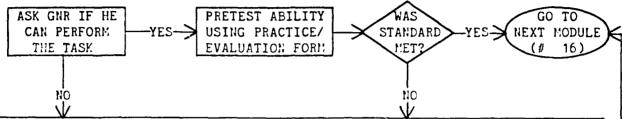
ELEVATE/DEPRESS MAIN GUN USING POWER AND MANUAL

CONTROLS.

TRAINING REFERENCES: FI: 17-12-3; TC 17-15-13.

SUPPORT REQUIREMENTS: 1 M60A3 TANK: SEVERAL STATIONARY TARGETS AT VARIOUS

RANGES: LASER SAFE RANGE AREA.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- Describe/review the prerequisite tasks (see above).
- 3. Emphasize safety requirements (warnings).

### DEMONSTRATE

- 1. Position yourself in Gunner Seat with Gunner observing from Loader/TC
- Walk/talk Gunner through switch setting for various main gun target engagements.
- 3. Walk/talk Gunner through target acquisition and aim-lase-fire procedures for various target exposures at different ranges.
- Walk/talk Gunner through G-pattern for laying on target.
- 5. Walk/talk Gunner through fire command sequence and responses.
- 6. Repeat the target engagement demonstration, without interruption.

### PRACTICE

- 1. Have Gunner demonstrate setting switches for various stationary main gun target engagements (HEAT, APDS, HEP/NP, FSDS).
- 2. Nave Gunner demonstrate target acquisition, aiming and ranging, procedures for various target exposures at different ranges.
- 3. Have Gunner announce the responses normally given during chuatement.
- 4. Provide prompts/cues to guide Gunner performance; gradually remove.
- Critique performance while reinforcing correct responses.
- Walk/crawl/run through procedure for engaging stationary main gun target until satisfied with Gunner's performance.

- 1. Instruct Cunner on performance evaluation procedure and standards.
- 2. EEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Engages stationary main gun targets in normal mode correctly and without delay.

# INSTRUCTOR

	BEGIN EXERCISE:			GO	NO GO
1.	SWITCH SETTING  Command "GUNNER-SABOT-TANK," (then HEAT, HEP/WPFSDS) and observe performance (steps 1-2).	•	Selects ammo announced in fire command.  Places MAIN GUN switch in ON.		
2.	TARGET ACQUISITION  • Lay main gun for direction (on and off target), and observe performance (steps 3-5).	3•	Grasps power control handles while viewing through unity window to detect target.		
		4.	Looks through sight to recognize/identify target.		
		5.	Announces "IDENTIFIED," and squeezes palm switch or "CANNOT IDENTIFY".	,	
3.	<ul> <li>AIN-LASE-FIRE</li> <li>Lay main gun on differently exposed targets at various ranges and observe performance (step 6-10).</li> </ul>	6. e	Using a G-pattern, lays aiming cross slightly below center of target visible mass.		
	<ul> <li>Command "RELASE" occas- sionally and observe performance.</li> </ul>	7.	Announce "LASING," and depresses LASE/LEAD button.		
	• Command "FIRE" and "AT MY COMMANDFIRE," and observe performance	.3	Relays on center of target visible mass.		
	observe performance.	9.	Announce "ON THE WAY," and squeezes firing trigger(s).		
	• Command "CEASE FIRE" or "TARGET CEASE FIRE," to terminate engagement.	10.	Relays on target aiming point, and announces observation.		
4.	Issue a complete fire com- mand for a stationary main gun target engagement, ther observe/score total perfor- mance (steps 1-10).	)	Performs steps 1-10 in sequence.		

GC	no G	c
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TRAINING MODULE NO.

TIME: 30 MINUTES

MODE.

PREREQUISITE TASKS: ENGAGE STATICHARY MAIN GUN TARGETS IN NORMAL MODE:

TRACK TARGETS USING POWER CONTROL HANDLES: APPLY

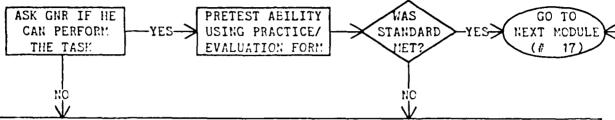
AUTO AND MANUAL LEAD.

TRAINING REFERENCES: FN: 17-12-3; TC 17-15-13.

ENGAGE MOVING MAIN GUN TARGETS IN NORMAL

SUPPORT REQUIREMENTS: 1 M60A3 TANK: SEVERAL MOVING TARGETS AT VARIOUS

RANGES: LASER SAFES RANGE AREA.



# TRAIN THE TASK

### INTRODUCE

- State performance task and training standards in your own words.
- Describe/review the prerequisite task (see above).
- 3. Emphasize safety requirements (warnings).

### DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader/TC
- Review how to engage a stationary main gun target in normal mode. 2.
- Walk/talk Gunner thru switch settings for various main gun targets.
- Walk/talk Gunner thru target acquisition and aim-track-lase-lead-fire procedure.
- 5. Walk/talk Gunner thru fire command sequence and responses.
- 6. Repeat the moving target engagement procedure, without interruption.

### PRACTICE

- Have Gunner set switches for various moving main gun target engagements.
- 2. Have Gunner aim, track, and lase/lead for different moving target exposures at various ranges and speeds.
- 3. Have Gunner announce the responses normally given during engagement.
- 4. Provide prompts/cues to guide performance; gradually remove.
- 5. Critique performance while reinforcing correct responses.
- Walk/crawl/run through procedure for engaging moving main gun targets until satisfied with Gunner's performance.

- Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Fractice/Evaluation Form.
- Test to Standard: Engages moving rain pun targets in normal mode correctly and without delay.

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CONTRACTOR SECTIONS CANADAS

# GUNNEL

	EEGIN EXERCISE:			GC	NO GO
1.	MOVING TANK," (then HEAT, HEP/WP, FSDS) and observe performance (steps 1-3).	1. 2. 3.	Selects ammo announced in fire command. Places MAIN GUN switch in CN. Sets POWER/STAB switch in STAL position.		
2.	TARGET ACCUISITION  Lay main gun for direction (on and off target) and observe performance (steps 4-6).	4. 5.	Grasps power control handles while viewing through unity window to detect target. Looks through sight to recognize/identify		
		6.	target.		
3•	<ul> <li>AIM-TRACK-LASE-LEAD-FIRE</li> <li>Lay main gun on differently exposed moving targets at various ranges and speeds and observe performance (steps 7-12).</li> </ul>		Lays aiming cross slightly below center of visible mass, while tracking, using G-pattern. Tracks target smoothly		
	<ul> <li>Command "RELASE" occassionally and observe performance.</li> <li>Command "FIRE" or "AT MY COMMANDFIRE" and observe performance.</li> </ul>	9.	for 1.5 seconds (minimum). Announces "LASING," and depresses LASE/LEAD tutton. Lays aiming cross on center of target visible mass.		
4.	• Command "CEASE FIRE" or "TARGET CEASE FIRE," to terminate engagement.  Issue a complete fire command for a moving main gun target engagement, then observe/score total performance (steps 1-12).		trigger(s). Telays on target aiming point and announces clservation. Ferforms steps 1-12 in sequence.		

GO	no co	
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CREW POSITION: GUNNER ENGAGE MAIN GUN TARGET USING THE MIOSD TASK:

TRAINING MODULE NO. 30 MINUTES

TIME:

PREREQUISITE TASKS:

TELESCOPE.

ENGAGE STATIONARY MAIN GUN TARGETS IN NORMAL MODE;

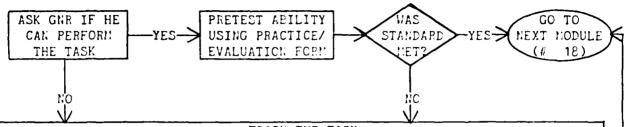
ENGAGE MOVING MAIN GUN TARGETS IN NORMAL MODE: TRACK TARGETS USING POWER CONTROL HANDLES: APPLY

AUTO AND MANUAL LEAD.

TRAINING REFERENCES: FI: 17-12-3; TC 17-15-13.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; SEVERAL STATIONARY/

MOVING TARGETS AT VARIOUS RANGES: LASER SAFE RANGE



# TRAIN THE TASK

### INTRODUCE

- State performance task and training standards in your own words.
- Describe/review the prerequisite tasks (see above).
- Emphasize safety requirements (warnings).

# DENCHSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader/TC
- 2. Walk/talk Gunner thru switch settings for various main gun target engagements.
- 3. Walk/talk Gunner thru stationary target acquisition, aiming, and firing procedure.
- 4. Walk/talk Gunner thru fire command sequence and responses.
- 5. Walk/talk Gunner thru moving target acquisition, aiming, tracking, leading and firing procedure.
- 6. Repeat the demonstration for both stationary and moving target engagements, without interruptions.

### PRACTICE

- 1. Have Gunner set switches for various main gun target engagements.
- 2. Have Gunner walk-talk thru procedure for engaging a stationary target.
- 3. Have Gunner walk-talk thru procedure for engaging a moving target.
- 4. Provide prompts/cues to guide performance: gradually remove.
- 5. Critique performance while reinforcing correct res; onses.
- Repeat steps 1-5 until satisfied with Gunner performance.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. FEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Engages main gun targets using the M105D telescope correctly and without delay.

GUNNER

	BEGIN EXERCISE:			GO	NO GC
1.	SWITCH SETTINGS  • Command "GUNNER-SABOT- (HEAT- HEP/WP) (MOVING)- TANK-(TRUCK) ONE FIVE	1.	Selects reticle for ammo announced.		
2.	HUNDRED," and observe performance (steps 1-2). TARGET ACQUISITION	2.	Places MAIN GUN switch in ON.		
-•	• Lay main gun for direction (on and off target) and observe performance (steps 3-5).	3.	Grasps power control handles while viewing through unity window to detect target.		
		4.	Looks through telescope to recognize/identify target.		
2	ATP (TEACK (LEAD) FIRE	5.	Announces "IDENTIFIED," and squeezes palm switches or "CANNOT IDENTIFY."		
3.	AIN-(TEACK/LEAD)-FIRE Announce range to differently exposed targets (moving and stationary) at various distances and observe performance (steps	٤.	Lays announced range line on center of tar- get visible mass using a G-pattern.		

• Command "FIRE" or "AT MY & COMMAND...FIRE," and observe performance.

6-9).

INSTRUCTOR

- Command "CEASE FIRE" or "TARGET CEASE FIRE," to terminate the engagement.
- 4. Issue a complete fire com- 10. mand for a stationary (then noving main gun target engagement, then observe/score total performance (steps 1-10).

•	Announces	"ON THE	WAY,"	
	and squee:	zes firi	ng	
	trigger(s)	).		

If target is moving, applies standard lead

for ammo.

Performs	steps	1-10	in	
sequence.	•			

GO	::c Go

CREW POSITION: GUNNER

TRAINING MODULE NO.

ADJUST FIRE FOR MAIN GUN ENGAGEMENTS. TIME: 30 MINUTES

PREREQUISITE TASKS: ENGAGE STATIONARY (MOVING) MAIN GUN TARGETS IN NORMAL

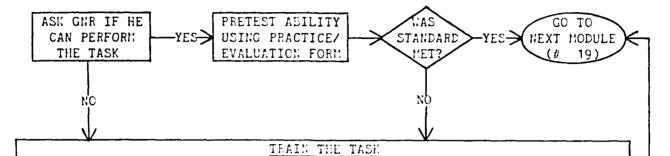
MODE: ENGAGE MAIN GUN TARGETS USING THE MIOSD

TELESCOPE.

TRAINING REFERENCES: FN: 17-12-3: FN: 17-19E1/2.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; STATIONARY AND

MOVING TARGETS: 1 155 LASER.



### INTRODUCE

PROCESSOR SECTESSOR PROGRAMME

- 1. State task performance and training standards in your own words.
- 2. Describe the three methods of fire adjustment: Reengage, Standard Adjustment, and Commander's Adjustment (Subsequent Fire Command).

# DEMONSTRATE

- 1. Adjust M55 laser dot (or something similar) to show where the 1st round fired impacted at the target (use Practice/Evaluation Form).
- 2. Position yourself in Gunner's station with Gunner at TC's station.
- 3. Walk thru reengage method by announcing Gunner's response and making the correct fire adjustment.
- 4. Readjust 155 laser dot and repeat step 3 until you have covered first round miss possibilities (use Practice/Evaluation Form).
- 5. Repeat steps 3 and 4 for Standard Adjustment method.
- Repeat steps 3 and 4 for Commander's Adjustment method.

### PRACTICE

- 1. Position yourself in TC station with Gunner at Gunner's station.
- Adjust M55 laser dot for a 1st round miss (use Practice/Evaluation Form)
- 3. Issue initial fire command and proceed thru the reengage method.
- 4. Critique Gunner's performance after each fire command while reinforcing correct responses.
- Proceed gradually, repeating commands until satisfied with performance.
- Repeat steps 2-5 for both remaining methods of fire adjustment.

- 1. Instruct Gunner on performance evaluation procedure and standards.
- 2. PEGIN EXERCISE as provided on Fractice/Evaluation Form.
- Test to Standard: Adjusts fire for main gun engagements correctly and without delay.

# INSTRUCTOR

# GUNNER

	BEGIN EXERCISE:		GO NO GO
1.	Adjust position of 1.55 1. laser dot (see below), then issue appropriate fire command (with or without range element) while laying main gun.	Sets fire control switches, announces "IDENTIFIED," lays on center of target's visible mass, announces "LASING," and awaits TC commands.	(OPTIONAL)
2.	On hearing the gunner 2. announce "LASING,"	Makes final lay, an- nounces "ON THE WAY,"	(OPTIONAL)
3.	announce "FIRE."  Score performance on each 3. method and total as follows:	and fires. Relays on target aiming point, announces observation, pauses for possible subsequent command, and adjusts fire as follows:	(OPTIONAL)
	GNR-SABOT-TANK	REENGAGE METHOD	
	<ul><li>a. (short)</li><li>b. (over)</li><li>c. (right)</li><li>d. (left)</li><li>e. (any combination)</li></ul>	•Relays on target center of mass, announces "LASING," pauses momentarily, then announces "ON THE WAY."	
	GNR-HEAT-TANK	STANDARD ADJUSTMENT	
	<pre>a. (short) b. (over) c. (right) d. (left) e. (any combination)</pre>	•ADD ONEON THE WAY •DROP ONEON THE WAY •LEFT ONEON THE WAY •RIGHT ONEON THE WAY •(correct announcement)	
	GHR-HEAT(SAPOT)-(RANGE)-TANK	COMMANDER'S ADJUSTMENT	
	a. ADD ONE (200), FIRE b. DROP ONE (200), FIRE c. LEFT ONE (200), FIRE d. RIGHT ONE (200), fire e. GUNNER REENGAGE	Positions aiming cross based on TC's announced correction and issues gunner's responses.	:
ч.	Score total performance.		
	GO	NO GO	

CREW POSITION: GUNNER

TRAINING MODULE NC.

PERFORM MAIN GUN MISFIRE PROCEDURES.

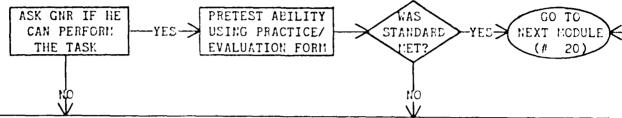
TIME: 30 MINUTES

PREREQUISITE TASKS: ENGAGE STATIONARY (MOVING) MAIN GUN TARGETS IN NORMAL

MODE: ENGAGE MAIN GUN TARGETS USING THE M105D

TELESCOPE.

TRAINING REFERENCES: FN 17-19E1/2; TM 9-2350-253-10. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



#### TRAIN THE TASK

#### INTRODUCE

- State performance task and training standards in your own words.
- Explain meaning of MISFIRE, HANGFIRE, COCK-OFF, HOT GUN, VERY HOT GUN,
- Emphasize safety requirements (warnings).

### DEMONSTRATE

- Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Announce "ON THE WAY" and "HISFIRE" (keep gun on target - personnel clear).
- 3. Attempt to fire using other electrical trigger (repeat responses).
- 4. Attempt to fire from TC station.
- 5. Attempt to fire using emergency (blasting) firing device (MAIR GUN off).
- 6. Wait 2 minutes, rotate round 1/2 turn (Loader), and re-attempt to fire.
- Remove round after waiting 1 minute (if HOT or stuck, wait 2 hours).
- Repeat entire task procedure, without interruption. 8.

#### PRACTICE

- 1. Instruct Gunner to describe each step as he performs the procedure.
- 2. Issue command to FIPE and proceed (use Practicie/Evaluation Form).
- Provide prompts/cues to guide performance by playing the part of the tank commander (attempt to fire) and Loader (if loader not available).
- Repeat steps 1-3 until satisfied with Gunner's performance.

- Instruct gunner on performance evaluation procedure and standards.
- FEGIN EXERCISE as provided on Practice/Evaluation Form. 2.
- Test to Standard: Performs misfire procedure correctly and without delay.

INSTRUCTOR

# GUNNER

	BEGIN EXERCISE:			GO	110	GO
1.	Instruct gunner to simu- late failure of main gun to fire. With main gun trained on a target, com- mand "FIRE," and observe	1.	Attempts to fire using trigger on power control handle. Announces "ON THE WAY" and "MISFIRE."			
	task performance (Steps 1-9)	2.	Attempts to fire using trigger on GNR's control handle that was not used initially. Announces "CTHE WAY" and "MISFIRE."	1		
		3.	Attempts to fire using trigger on manual elevating handle. Announces "CN THE WAY," and "MISFIRE."			
2.	Simulate attempt to fire from TC station by announcing "CN THE WAY" and "MISFIRE."	4. 16	Waits for commander to attempt to fire from his position.			
3.	In actual procedure, the TC would release override switch after GNR has placed	5.	Places MAIN GUN switch in OFF position.			
	main gun switch in OFF position.	6.	Attempts to fire using manual firing device (blasting machine). Announces "ON THE WAY" and "MISFIRE."			~
"; •	Place loader's switch in SAFE position. Wait 2 minutes, open breech, rotate the round 1/2 turn and close		Observes/cnsures the loader carries out his misfire procedures.			
	breech. Place loader's switch in FIRE position and announce "UP."	.3	Attempts to fire using an electrical trigger. Announces "ON THE WAY" and "MISFIRE."			
5.	Place loader's safety switch in SAFE position.	9.	Observes/ensures loader places main jun safety in SAFE.			
6.	Announce "STOP," and score total performance.					
	GO [		1:0 GO			

CREW POSITION: GUNNER

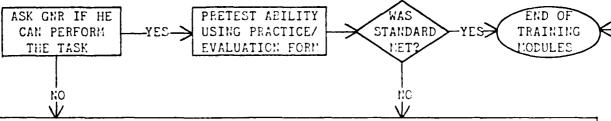
TRAINING MODULE NO.

TASK: POWER DOWN AND SECURE GUNNER'S STATION.

TIME: 15 MINUTES

PREREQUISITE TASKS: TRAVERSE TURRET USING POWER AND MANUAL CONTROLS.

TRAINING REFERENCES: FM 17-19E1/2; TM 9-2350-253-10. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



### TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standard in your own words.
- 2. Identify after operation PMCS completed prior to power down.
- 3. Identify vehicle status (preset controls/switches for power down).

#### DEMONSTRATE

- 1. Position yourself in Gunner seat with Gunner observing from Loader station.
- 2. Power down the station (use Practice/Evaluation Form).
- 3. Place gun in travel lock (role play loader).
- 4. Install exterior covers (optional).
- 5. Repeat entire procedure, without interruption.

#### PRACTICE

- 1. Have Gunner perform each subtask, stating each step as he performs it (use Practice/Evaluation Form).
- Provide prompts/cues as necessary while reinforcing correct responses.
- 3. Repeat steps 1-2 until satisfied with Gunner's performance.

- Instruct Gunner on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Powers down and secures gunner station without delay and in accordance with standardized procedures.



# GUNNER

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "POWER DOWN AND SECURE GUNNER'S STATION," and observe performance (Steps 1-9).	1.	Sets gun switches to OFF.  • main gun • machinegun		
		2.	Sets TTS MODE switch to OFF.		
		3.	Closes ballistic shield.		
		4.	Sets computer POWER switch to OFF.		
2.	Provide instruction as necessary.	5.	Sets STAE switch to OFF.		
		6.	Traverse turret to place main gun in travel lock (with loader).		
		7.	Sets ELEV/TRAV POWER switch to CFF.		
		8.	Removes-stows CVC helmet.		
3.	(Optional)	9.	<pre>Installs exterior covers.    machinegun    telescope    main gun muzzle</pre>		
4.	Score total performance.				
	GO [		1:0 GO	·	

PART 5
TANK DRIVER TRAINING MODULES

# TABLE OF CONTENTS DRIVER TRAINING MODULES

Module No.	Task	Page No.
1	Perform Before/During/After Operation PMCS.	1
2	Drive Tank Across Varied Terrain.	3
3	Perform Hull Down/Turret Down Movement.	5
4	Drive Tank Using Cover and Concealment.	7
5	Drive Tank in Stabilized Mode.	9
6	Maneuver Tank Using Smoke Generator.	11
7	Drive Tank Using Evasive Action Techniques.	13
8	Install Night Vision Device AN/VVS-2.	15
9	Place AN/VVS-2 Night Vision Device into Operation.	17
10	Drive the Tank at Night Using AN/VVS-2 Night Vision Device.	19
11	Remove and Stow the AN/VVS-2 Night Vision Device.	21

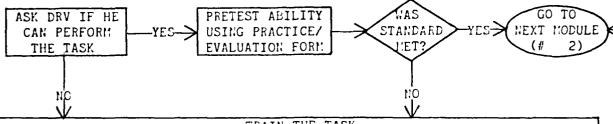
ER TRAINING MODULE NO.

TASK: PERFORM BEFORE/DURING/AFTER OPERATION PMCS.TIME: 120 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; 1 TH 9-2350-253-10.



# TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain purpose of PMCS.
- Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Locate the PMCS table in TN 9-2350-253-10.
- 2. Identify the Before, During, and After PMCS requirements.
- 3. Walk/talk Driver through each PMCS requirement (use Practice/Evaluation Form).
- 4. Use the TM to identify specific maintenance task procedures (check engine oil).

#### PRACTICE

STORES SECURIOR SECURIOR SECURIOR SECURIOR PROGRESS RESIDENCE

- Instruct Driver to perform the Before, (then During and After)
   Operations PMCS (use Practice/Evaluation Form).
- 2. Assist Driver where such assistance would be provided by another crewman.
- Ask driver to describe the PMCS that must be performed.
- 4. Provide prompts or cues, as needed, to guide the task performances.
- 5. Critique Driver's performance while reinforcing correct responses.
- 6. Repeat steps 1-5 until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Performs Perfore, During, and After Operation PMCS correctly and without delay.

BEGIN EXERCISE:

DRIVER

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TRAINING MODULE NO.

DRIVE TANK ACROSS VARIED TERRAIN.

TIME: 60 MINUTES

and thereby persons thereby

PREREQUISITE TASKS: PERFORM BEFORE, DURING, AFTER OPERATIONS PMCS.

MANUALS:

TRAINING REFERENCES:

VIDEO TEC: FK-ARS-42-74

945-171-0100-F

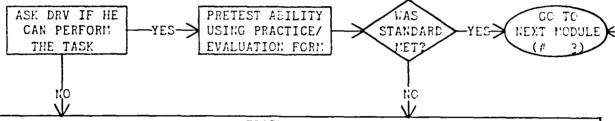
TC-17-10, FI: 17-19E1/2

FK-ARC-17-73

020-171-1553-B FI: 21-17, FI: 21-306

TI: 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 MGOA3 TANK; VARIED TERRAIN AREA.



#### TRAIN THE TASK

#### INTRODUCE

- State performance task and training standards in your own words.
- Provide an overview of tank driving area (course).
- Emphasize safety requirements and warnings.

# DELICHSTRATE

- Position Driver in TC hatch to observe your demonstration.
- 2. Walk/talk Driver across the varied terrain as you negotiate it.
- Point out driving requirements during target engagement.

#### PRACTICE

- 1. Position yourself in TC hatch where you can observe the Driver.
- Instruct Driver to describe his actions as he negotiates the terrain.
- Critique Driver's performance while reinforcing correct responses.
- 4. Repeat the varied terrain driving task until satisfied with Driver's performance.

- Instruct Driver on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Drives tank across varied terrain correctly and without delay.

	<u>TC</u>		DRIVER		
	BEGIN EXERCISE:			GC	1:0 GO
1.	Select terrain to nego- tiate, announce "DRIVER MOVE OUT," and observe	1.	Selects proper gear for terrain conditions.		
	performance (steps 1-9).	2.	Accelerates and decele- rates smoothly.		
		3•	Avoids sudden and unnecessary braking.		
		4.	Approaches manmade and natural obstacles correctly.		
		5.	Crosses manmade and natural obstacles correctly.		
		6.	Accelerates smoothly to move away from manmade and natural obstacles.		
		7.	Ascends and descends slopes correctly.		
		8.	Maintains control when crossing a side slope.		
2.	Announce "DRIVER STOP," and score total performance.	9•	Stops smoothly upon command.		
	r				

GO \_\_\_\_\_\_ NO GO \_\_\_\_\_

TRAINING MODULE NO.

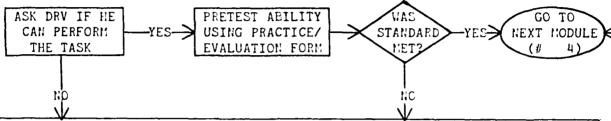
TASK: PERFORM HULL DOWN/TURRET DOWN MOVEMENT.

TIME: 30 MINUTES

PREREQUISITE TASKS: PERFORM BEFORE, DURING, AND AFTER OPERATION PMCS;

VARIED TERRAIN DRIVING.

TRAINING REFERENCES: FM 17-12-3; FM 17-13-3; VIDEO ARS-9-77. SUPPORT REQUIREMENTS: 1 M60A3 TANK; VARIED TERRAIN AREA.



#### TRAIN THE TASK

#### INTRODUCE

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Property Property of States (States States of 
- 1. State performance task and training standards in your own words.
- 2. Explain importance of driving task during tank target engagements.
- 3. Emphasize safety requirements and warnings.

# DEMONSTRATE

- 1. Position Driver in TC hatch to observe your demonstration.
- 2. Walk/talk Driver through procedures as you negotiate the tank to turret down and hull down positions. (Announce all appropriate commands)
- Have Driver look through 105D telescope to observe when the Gunner would announce "DRIVER STOP."
- Repeat hull/turret down movement procedures, without interruption.

#### PRACTICE

- 1. Position tank in a turret down position then take up a position using Gunner's telescope.
- Instruct Driver to seek a hull down position ("DRIVER MOVE OUT").
- Critique Driver's performance while reinforcing correct responses.
- 4. Instruct Driver to move to a turret down position ("DRIVER EACK UP...STOP").
- Critique Driver's performance while reinforcing correct responses.
- Repeat hull down/turret down movement techniques until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- EEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Performs hull down and turret down movement correctly and without delay.

	<u>TC</u>		DRIVER		
	BEGIN EXERCISE:			GO	NO GO
1.	Position tank in turret- down position, take up p tion in 105-D telescope.	osi-	Selects proper gear for movement.		
	announce "GUNNER-SABOT-T DRIVER MOVE OUT, GUNNER TAKE OVER," and observe performance (steps 1-2).	ANK,2.	Moves tank quickly and steadily without excessive rocking or stalling engine.		
2.	Announce "DRIVER STOP," when gun clears terrain, and observe performance (steps 3-4).	3.	Stops tank on command without excessive rocking.		
	(300)0 5 17.		Shifts to "R" while keeping brake depressed		
3.	Announce "DRIVER BACK-UP STOP," and observe performance (steps 5-6).		Releases brake and moves quickly and steadily backwards.		
4.	Score total task performance.	6.	Stops tank on command without excessive rocking and shifts to proper gear.		
		;o []	1:0 GO	•.	

TASK: DRIVE TANK USING COVER AND CONCEALMENT.

TRAINING MODULE NO.

TIME: 60 MINUTES

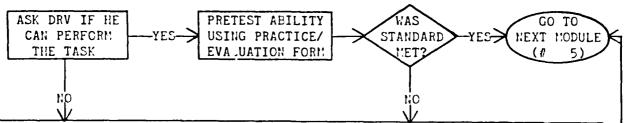
PREREQUISITE TASKS: VARIED TERRAIN DRIVING.

TRAINING REFERENCES:

FM 17-12-3; TM 21-306.

SUPPORT REQUIREMENTS:

1 M60A3 TANK; VARIED TERRAIN AREA.



#### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain importance of driving using cover and concealment.
- 3. Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Position Driver in TC hatch to observe your demonstration.
- 2. Walk/talk Driver through maneuvers as you negotiate the terrain (use Practice/Evaluation Form).
- 3. Point out available cover and how to conceal tank during movement.

# PRICTICE

- 1. Instruct Driver to seek cover and concealment from one point to another (use Practice/Evaluation Form).
- 2. Critique Driver's performance while reinforcing correct responses.
- 3. Provide prompts/cues to guide performance (attend to enemy's view point).
- 4. Repeat the driving task until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Drives tank using cover and concealment correctly and without delay.

	<u>TC</u>		DRIVER			
	BEGIN EXERCISE:			GO	NO GO	_
1.	Select a destination, announce "DRIVER MOVE OUT USING COVER AND CONCEAL-	1.	Selects proper gear for terrain.			_
	MENT," and observe performance (steps 1-11).	2.	Selects shortest/ levelest route.			_
		3•	Avoids exposing sides and rear of tank to threat.			_
		4.	Selects route that allows for full fields of fire for main gun.			_
		5.	Selects route that obscures tank from view.			_
		6.	Avoids skylighting tank.	·		_
		7.	Stays close to wooded areas.			_
		8.	Selects cross-country route rather than trail.			_
		9.	Selects cover common to area.			_
		10.	Avoids shortcuts that expose vehicle.			_
		11.	Advises crew of obstacles.			_
2.	Score total performance.			•		
	co [		::c Go			

DRIVE TANK IN STABILIZED MODE.

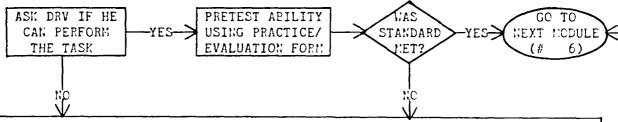
TRAINING MODULE NO.

TIME: 60 MINUTES

PREREQUISITE TASKS: VARIED TERRAIN DRIVING.

TRAINING REFERENCES: Th 9-2350-253-10; FM-17-13-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; VARIED TERRAIN AREA.



#### TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain when/why tank is driven in stabilized mode.
- 3. Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Position Driver in Gunner's seat observing through N=35E1 periscope.
- 2. Place the fire control system in stabilized mode of operation.
- Drive across the varied terrain while maintaining 12-15 MPH speed (use Practice/Evaluation Form).
- 4. Walk/talk Driver through the task as you negotiate it.

#### PRACTICE

- 1. Position yourself in Gunner's 1:-35E1 periscope.
- 2. Instruct Driver to drive in stabilized mode from one point to another (use Practice/Evaluation Form).
- Critique Driver's performance while reinforcing correct responses.
- 4. Repeat driving in stabilized mode until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- 2. EEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Drives tank in stabilized mode correctly and without delay.



	<u>TC</u>		DRIVER	
	BEGIN EXERCISE:			GO NO GO
1.	Announce "DRIVER MOVE OUT. DRIVE TANK IN STABILIZED MODE," and observe perfor-	1.	Selects proper gear for terrain.	
	mance (steps 1-2).	2.	Accelerates and decelerates smoothly, without rocking the tank.	
2.	Issue various driving commands (step 3).	3.	Follows driving commands.	
3.	Announce "GUNNER-SABOT- TANK-DIRECT FRONT - AT MY COMMAND," and observe	4.	Maintains a 12-15 MPH speed.	
	performance (steps 4-7).	5.	Maintains a steady firing platform.	
		6.	Maintains steady direction.	
		7.	Alerts crew of obstacles.	
4.	Score total performance.			
				••
	GO [		NO GO	

TRAINING MODULE NO.

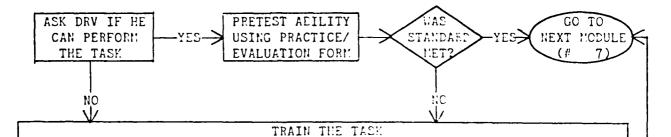
TASK: MANEUVER TANK USING SMOKE GENERATOR.

TIME: 30 MINUTES

PREREQUISITE TASKS: VARIED TERRAIN DRIVING.

TRAINING REFERENCES: TH 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 MOOA3 TANK; VARIED TERRAIN AREA.



### INTRODUCE

PARAMETER ASSESSED PROJECT PRO

DESCRIPTION OF THE PROPERTY OF

- 1. State performance task and training standards in your own words.
- Explain where and when smoke generator is used.
- Emphasize safety requirements and warnings.

### DEMONSTRATE

- Position Driver where he can best observe your demonstration.
- 2. Walk/talk Driver through procedures for maneuvering a tank using the smoke generator (use Practice/Evaluation Form).
- Maneuver tank over terrain under smoke condition, without interruption.

#### Phaciale

- 1. Position yourself where you can best observe Driver's performance.
- 2. Instruct Driver to activate and maneuver the tank using the smoke generator (use Practice/Evaluation Form).
- Critique Driver's performance while reinforcing correct responses.
- Repeat driving with smoke generator until satisfied with Driver's performance.

- Instruct Driver on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Yaneuvers tank using snoke generator correctly and without delay.



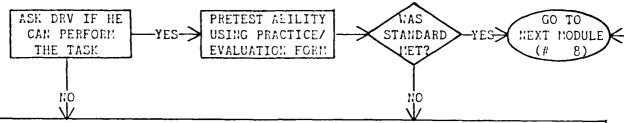
	<u>TC</u>		DRIVER		
	BEGIN EXERCISE:			GO	NO GO
۱.	Announce "DRIVER-ACTIVATE SMOKE GENERATOR," and observe performance (step 1).	1.	Lifts cover and places smoke generator switch in ON.		
2.	Announce "DRIVER-MOVE OUT AND MAINTAIN CONCEALMENT," and observe performance (step 2).	2.	Maneuvers tank to keep it concealed by smoke.		
3•	Announce "DRIVER-TURN SMOKE GENERATOR OFF," and score task performance.		Sets snoke generator switch to OFF.		
	GO [		110 GO		

CREW POSITION: DRIVER TRAINING MODULE NO.

TASK: DRIVE TANK USING EVASIVE ACTION TECHNIQUES.TIME: 30 MINUTES PREREQUISITE TASKS: VARIED TERRAIN DRIVING: DRIVE TANK USING SMOKE

GENERATOR.

TRAINING REFERENCES: FM 17-12-3, FM 17-13-3, FM 71-1.
SUPPORT RECUIREMENTS: 1 M60A3 TANK; VARIED TERRAIN AREA.



#### TRAIN THE TASK

### INTRODUCE

REST ROSSER RESERVE ASSESSE BERNESSE

- 1. State performance task and training standards in your own words.
- Explain characteristics and limitations of SAGGER ATGI.
- 3. Emphasize safety requirements and warnings.

# DEMONSTRATE

- 1. Position Driver where he can test observe your demonstration.
- Announce "SAGGER-DIRECT FRONT. DRIVER TAKE EVASIVE ACTION."
- Walk/talk Driver through the evasive action maneuver as you attempt to evade a simulated SAGGER ATGN attack.
- 4. Repeat the entire procedure, without interruption.

### PRACTICE

- 1. Position yourself where you can test observe Driver's performance.
- Instruct Driver to take evasive action for SAGGER ATGM (use Practice/Evaluation Form).
- Critique Driver's performance while reinforcing correct responses.
- 4. Repeat evasive action SAGGER crill until satisfied with Driver's performance.

- Instruct Driver on performance evaluation procedure and standards.
- 2. FEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Drives tank using evasive action techniques correctly and without delay.

	TC		DRIVER		
	BEGIN EXERCISE:			GO	NO GO
۱.	Announce "DRIVER MOVE OUT."	1.	Selects proper gear for terrain.		
2.	When ready, announce "SAGGER, DIRECT FRONT. DRIVER TAKE EVASIVE ACTION,"		Acquires/Identifies target.		
	and observe performance steps 2-5).		Orients front of tank in direction of SAGGER attack.		
		4.	Drives tank making abrupt left/right oblique turns.		
3.	Announce "DRIVER STOP."	5.	Moves into a hide position, if available.		
4.	Score total performance.				
	GO [		NO GO		

INSTALL NIGHT VISION DEVICE AN/VVS-2.

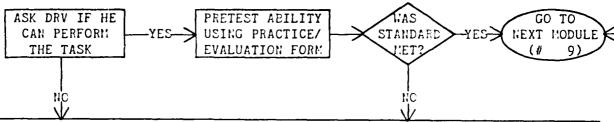
TRAINING MODULE NO.

TIME: 10 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TH 9-2350-253-10; TH 11-5855-249-10.

SUPPORT REQUIREMENTS: 1 MGOA3 TANK OR TURRET TRAINER



### TRAIN THE TASK

### INTRODUCE

- State performance task and training standards in your own words.
- Explain purpose/use of night vision device AN/VVS-2.
- Emphasize safety requirements and warnings (Battery EA 1567U).

### DEPONSTRATE

- Position Driver where he can best observe your demonstration.
- 2. Walk/talk the Driver through the AN/VVS-2 installation procedure (use Practice/Evaluation Form).
- Repeat the entire installation procedure, without interruption.

# THACTICE

- 1. Instruct Driver to install AN/VVS-2 Night Vision Device (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- Critique Driver's performance while reinforcing correct responses.
- Repeat the AN/VVS-2 installation procedure until satisfied with Driver's performance.

- Instruct Driver on performance evaluation procedure and standards.
- 2. EEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Installs night vision device AM/VVI-2 correctly and without delay.

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	TC		DRIVER	
	BEGIN EXERCISE:			GO NO GO
1.	Announce "INSTALL NIGHT VISION DEVICE," and observe performance (steps 1-11).	1.	Places MASTER BATTERY switch in OFF.	
	performance (sceps 1-11).	2.	Closes driver's hatch.	
		3.	Pulls the periscope lid handle down, depresses the lid latch, and opens lid.	
		4.	Removes the periscope from storage box under the 105mm gun.	
		5.	Releases and pivots elevation adjustments lever.	
		6.	Loosens jam nut on elevation adjustment lever.	
		7.	Positions the periscope in its holder and pushed up to lock it in place before releasing periscope.	
		.8	Tightens adjustment screw on elevation clamp until clamp is firmly seated, then tightens jam nut.	
		9.	Pushes elevation adjustment lever forward	d.
		10.	Unscrews dust cap from power receptacle, then removes power cable from stowage box and connect it to periscope recepta	s
2.	Score total performance.	11.	Reports "DRIVER CCMPLETE."	
	GO [		::c G0	

TRAINING MODULE NO.

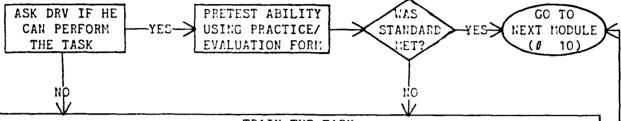
PLACE AN/VVS-2 NIGHT VISION DEVICE INTO

TIME: 10 MINUTES

OPERATION.

PREREQUISITE TASKS: INSTALL NIGHT VISION DEVICE AN/VVS-2. TRAINING REFERENCES: TM 9-2350-253-10, TM 11-5855-249-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite task (see above).
- Emphasize safety requirements and warnings.

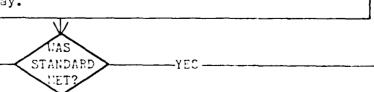
### DEMONSTRATE

- 1. Position Driver where he can best observe your demonstration.
- 2. Walk/talk the Driver through the procedure for placing AM/VVS-2 into operation (use Practice/Evaluation Form).
- Repeat the entire procedure for placing the AN/VVS-2 into operation. without interruption.

#### PRACTICE

- 1. Instruct Driver to place the AN/VVS-2 night vision device into operation (use Practice/Evaluation Form).
- 2. Provide prompts/cues to guide performance; gradually remove.
- 3. Critique Driver's performance while reinforcing correct responses.
- 4. Repeat the steps for placing the AM/VVS-2 Might Vision Device into operation until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Places AM/VVS-2 Night Vision Device into operation correctly and without delay.



	TC		DRIVER		
	BEGIN EXERCISE:			GO	1:0 GO
1.	AN/VVS-2 NIGHT VISION DEVICE		Turns vehicle MASTER BATTERY switch to ON.		
	INTO OPERATION, and observe performance (steps 1-6).	2.	Turns night vision switch to ON.		
		3.	Rotates the OFF/ERIGHT knob to full bright.		
		4.	Adjusts driver's seat s that viewing distance is 6" to 10" from lens.		
		5.	Adjusts the OFF/ERIGHT knob until the image is sharp and clear.		
2.	Score total performance.	6.	Reports "DRIVER COMPLETE."		
	GO [		1:0 G0		

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TRAINING MODULE NO.

DRIVE THE TANK AT HIGHT USING AN/VVS-2

TIME: 90 MINUTES

NIGHT VISION DEVICE.

PREREQUISITE TASKS:

INSTALL NIGHT VISION DEVICE AN/VVS-2: PLACE AN/VVS-2

NIGHT VISION DEVICE INTO OPERATION: VARIED TERRAIN

DRIVING.

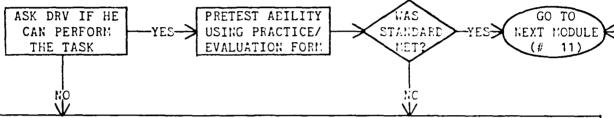
TRAINING REFERENCES: TM 9-2350-253-10; TM 11-5855-249-10; FM 21-306;

FM 17-19E1/2.

SUPPORT REQUIREMENTS:

1 M60A3 TANK: VARIED TERRAIN AREA: 1 PAIR AN/PSV-5A

NIGHT VISION GCGGLES.



#### TRAIN THE TASK

### INTRODUCE

- State performance task and training standards in your own words.
- 2. Explain the use of AM/PSV-5A Right Vision Goggles.
- 3. Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Position cupola and Driver in TC hatch on same axis as AM/VVS-2.
- Instruct Driver to observe your demonstration using AM/PEV-5A night vision goggles (use Practice/Evaluation Form).
- 3. Walk/talk the Driver across the varied terrain as you negotiate it using the night vision device (use Practice/Evaluation Form).

# PRACTICE

- 1. Identify the piece of terrain you want the Driver to negotiate.
- 2. Instruct the Driver to negotiate the terrain (slowly) using AM/VVS-2 (use Practice/Evaluation Form).
- Provide prompts/cues to guide the Driver's performance; gradually removed
- 4. Critique Driver's performance while reinforcing correct responses.
- Repeat night driving using AN/VVS-2 until satisfied with Driver's performance.

- Instruct Driver on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Drives the tank at night using AN/VVS-2 Night Vision device correctly and without delay.

<u>TC</u>	DRIVER

	BEGIN EXERCISE:			GO	NO GO
1.	Announce "DRIVER MOVE OUT," and observe performance (steps 1-10).	1.	Selects proper gear for terrain conditions.		
	(Sceps 1-10).	2.	Accelerates and decelerates smoothly.		
		3.	Avoids sudden and un- necessary braking.		
		4.	Approaches manmade and natural obstacles correctly.		
		5.	Crosses manmade and natural obstacles correctly.		
		6.	Accelerates smoothly to move away from man-made and natural obstacles.		
	(Provide assistance as required.)	7.	Requests assistance whenever unable to recognize terrain features or judge distance.	·.	
		8.	Ascends and descends steep slopes correctly.		
		9.	Maintains control when crossing a side slope.		
2.	Announce "DRIVER STOP," and score total performance.	10.	Stops smoothly and alertly on command.		
	GO [		::C GO		

TRAINING L'ODULE NO.

TASK: REMOVE AND STOW THE AN/VVS-2 NIGHT VISION

TIME: 30 MINUTES

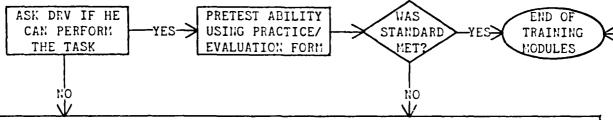
DEVICE.

THE PERSONS SERVICES TO SERVICE THE PERSONS THE PERSON

PREREQUISITE TASKS: INSTALL THE AN/VVS-2 PERISCOPE; PLACE THE AN/VVS-2

PERISCOPE INTO OPERATION.

TRAINING REFERENCES: TM 9-2350-253-10; TM 11-5855-249-10. SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER.



#### TRAIN THE TASK

# INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Review prerequisite tasks (see above).
- 3. Emphasize safety requirements and warnings.

# DEMCNSTRATE

- Position Driver where he can best observe your demonstration.
- Walk/talk Driver through each step in removing and stowing the AN/VVS-2 (use Practice/Evaluation Form).
- 3. Repeat the entire procedure, without interruption.

### PRACTICE

- 1. Have the Driver perform each step as you announce it (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance; gradually remove.
- 3. Critique Driver's performance while reinforcing correct responses.
- 4. Repeat steps 1-3 until satisfied with Driver's performance.

- 1. Instruct Driver on performance evaluation procedure and standards.
- DEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Performs removal and stowage of AN/VVD-2 correctly and without delay.



	<u>TC</u>		DRIVER		
	BEGIN EXERCISE:			GO	NO GO
1.	Announce "REHOVE AND STOW THE AN/VVS-2 PERISCOPE,"	1.	Sets night vision switch to OFF.		
	and observe performance (steps 1-13).	2.	Rotates OFF/BRIGHT switch knob to CFF.		
		3.	Disconnects power cable from viewer and connects to receptacle.		
		4.	Installs connector cap.		
		5.	Positions viewer in straight forward position.		
		6.	Installs eyepiece cover		
		7.	Installs lens cover.		
		8.	Presses lever and pulls handle rearward until locked in place.		
		9.	Lowers rear on viewer until it clears locking plunger.		
		10.	Slides viewer rearward until clear of forward mount and lowers from hatch.		
		11.	Stows viewer in stowage box.		
		12.	Presses locking lever and rotates down and forward. Pushes handle up until lever locks in place.		
2.	Score total task perfor- mance.	13.	Reports "DRIVER COMPLETE."		
	GC		1:0 GO		

PART 6
TANK LOADER TRAINING MODULES

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# LOADER TRAINING MODULES

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CREW POSITION: LOADER

TASK: IDENTIFY FRIENDLY AND THREAT (OPFOR)

TRAINING MODULE NO: TIME: 30 MINUTES

VEHICLES.

PREREQUISITE TASKS: NONE.

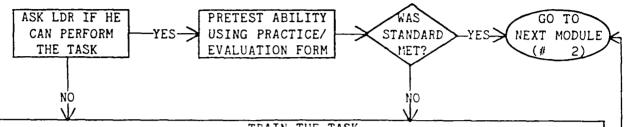
TRAINING REFERENCES: FM 17-19 E1/2; FM 17-12-3; GTA 17-2-9; GTA 17-2-8.

DDB 1100-313-82.

SUPPORT REQUIREMENTS: XEROX PICTURES FROM TASK SUMMARY 071-331-0814 (FM

17-19 E1/E2) OR COPIES OF SAME VEHICLES FROM GTA

17-2-8.



# TRAIN THE TASK

#### INTRODUCE

- State performance task and training standards in your own words.
- 2. Describe training aids (GTA 17-2-9; 17-2-8) for self-study.

#### DEMONSTRATE

- 1. Identify major tank characteristics (track, turret, main gun, etc.).
- 2. Compare support rollers/torsion bars, muzzle brakes, bore evacuator, size, fire control equipment.
- 3. Identify major recognition features of: T-55, ASU-85, 5-64/72, M-1970. T-10.
- 4. Identify major infantry combat vehicles (BMP, BMD) characteristics and recognition features.
- 5. Identify major scout vehicles (BRDM-2, command vehicle, recon car, ATGM launcher; AA missile launcher).
- 6. Identify major recognition features of friendly armor (Chieftain, Leopard, AMX 30, Spahpanzer, SP211-2, Marder).

#### PRACTICE

- 1. Present picture of a friendly or threat (OPFOR) vehicle (any order).
- 2. Ask Loader to identify as: friend or foe; tank, ICV, or socut vehicle; and major recognition features (use Practice/Evaluation Form).
- 3. Provide feedback while reinforcing correct responses.
- 4. Repeat steps 1-3 for remaining vehicles.
- 5. Repeat steps 1-4 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Identifies friendly and threat (OFFIR) vehicles correctly and without delay.

TC

# LOADER

	BEGIN EXERCISE:				GO	NO GO	
1.	Announce "IDENTIFY THE 1. FOLLOWING VEHICLES AS FRIEND OR FOE," present pictures, and score response.		Announces FRIEND or FOE as each of the following vehicles are presented:				
			a.	T-55 Tank			
		1	b.	Chieftain			
		(	c.	T-10 Tank			
		,	d.	AMX 30			
			е.	T-64/T-72 Tank			
			f.	MARDER			
		ļ	g.	ВМР			
			h.	Leopard I			
	(Each vehicle should be		i.	ASU-85			
	<pre>identified within eight seconds.)</pre>		j.	Spahpanzer-2			
			k.	BRDM-2			
			1.	T-62 Tank			
		i	m.	SPz 11-2			
			n.	BMD			
			٥.	M1970 Tank			
2.	Score total task performance.				-		
	GO		<del></del>	NO GO			

CREW POSITION: LOADER

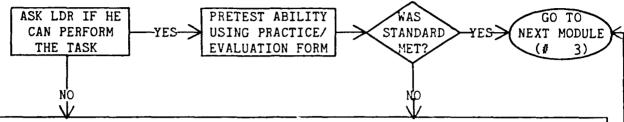
TASK: ACQUIRE TARGETS.

PREREQUISITE TASKS: IDENTIFY FRIENDLY AND THREAT

(OPFOR) VEHICLES.

TRAINING REFERENCES: FM 17-19 E1/2; FM 17-12-3; TC 17-15-5.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; FIELD ENVIRONMENT WITH All POSSIBLE TARGET SIGNATURES; PREARRANGED TARGET(S)



(VEHICLES, TROOPS, ETC.); 1 SET OF BINOCULARS.

#### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words..
- 2. Emphasize safety requirements (warnings).

#### DEMONSTRATE

- 1. Point out LDR's sector and main responsibility (use Practice/Evaluation Form).
- 2. Show how to scan sector without optics, pointing out boundaries/limits.
- 3. Show how to locate specific types of targets.
- 4. Show the fifty-meter method for locating specific targets, with optics.
- 5. Describe where to look for threat aircraft and techniques for flat terrain and hilly terrain.
- 6. Show how to scan sector at night.
- 7. Provide examples for reporting targets.

# PRACTICE

- 1. Have Loader identify sector of responsibility (change tank position and repeat).
- 2. Have Loader provide examples of target signature (use Practice/Evaluation Form).
- 3. Have Loader scan area while describing possible target locations with and without use of optics.
- 4. Have Loader use 50-meter method while describing what he is doing.
- 5. Have Loader assume target (troops, tank, etc.) is located in area (be specific) and to report it following SOP.
- 6. Provide feedback during each step while reinforcing correct responses.
- 7. Repeat steps 1-6 (in a different sector) until satisfied with task performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- $^3\cdot$  Test to Standard: Acquires targets correctly and without delay.

TC

## LOADER

	BEGIN EXERCISE:		GO NO GO
1.	Ask "What is your 1.	Answers:	
•	sector or responsi-	a. Sector is from left corner	
	bility?"	of gun mantelet to right	
		rear corner of turret.	<del></del>
		b. Main responsibility is air guard.	· L
2.	Ask: "What are two 2.	Answers:	
	examples of (a thru f)		
	signatures?"		<del></del>
	a. soldier	a. foxholes, trash, torn out	
		vegetation used for camou- flage, fires, and odors.	,
	b. track vehicle	b. tank tracks on ground, en-	. [
	-	gine noise, smoke, dust	<u> </u>
		clouds.	
	c. antitank	c. swishing sound, long thin	
		wires, tracers, sharp crace of AT guns.	;K
	d. artillery	d. grayish white smoke cloud,	
	•	bright orange flash, black	·
		smoke from airbursts, rush	<b>)—</b>
	e. aircraft	ing noise before impact.	
	e. aircraft	e. noise, glare from rotor blades canopies, vapor tra	- [] ails.
		moving foliage/dust from	
		helicopters (masked areas)	
	f. obstacles and mine	f. loose/disturbed dirt in a	
3.	Ask: "Describe the 3.	regular pattern.	
٥٠	50-meter method, both	Answers:  a. Search a strip 50m deep -	
	day and night."	right to left.	<u> </u>
		<pre>b. Search another strip -</pre>	
		left to right - farther	
		out and overlapping the the first strip.	
		c. Repeat a&b until sector is	3
		covered.	
		d. When suspicious spot is	
		detected, stop and search it thoroughly.	
		e. At night, look to side of	
		target using short, abrupt	
		irregular movements. (Dim	
) <b>.</b>	Anles MCina on D	reticle.)	
4.	Ask: "Give an 4. example of reporting	Answers: Describes type of target, distance, and loca-	
	a possible target."	tion (i.e., tank, 1000 meters	
		direct front).	
5.	Instruct loader to 5.	Acquires and reports target(s)	,
	<pre>acquire/report tar= get(s) on command</pre>	as prepared.	
	"BEGIN" and observe/		
	score performance.		

GO \_\_\_\_\_\_ NO GO \_\_\_\_\_

TASK: OPERATE TANK INTERCOM SET 2293/VRC.

TRAINING MODULE NO:

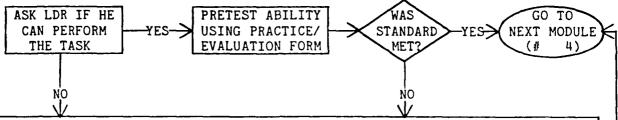
TIME: 5 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 902350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER WITH AMPLIFIER AM-

1780/VRC; INTERCOM SET 2298/VRC; 1 CVC HELMET.



#### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words..
- 2. Identify differences between C-2297/VRC and 2298/VRC.

#### DEMONSTRATE

- 1. Position LDR in turret where he can best observe task procedure.
- 2. Put on CVC helmet.
- Connect CVC helmet to intercom set. 3.
- 4. Place amplifier AM-1780/VRC into operation.
- Show procedure for transmitting on receiver-transmitter.
- Show procedure for talking to crew only.

## FRACTICE

- 1. Have Loader put on CVC helmet and connect to intercom set.
- 2. Have Loader turn On amplifier AM-1780/VRC.
- Have Loader position controls to transmit on receiver-transmitter.
- Have Loader position controls to talk to crew only.
- Critique Loader's performance after each step while reinforcing correct
- Repeat steps 1-5 until satisfied with Loader's performance.

- Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Operates tank intercom set 2298/VRC correctly and without delay.

	<u>TC</u>		LOADER			
	BEGIN EXERCISE:			GO	NO C	GO
1.	Announce "PUT ON CVC HELMET AND CONNECT TO INTERCOM SET," and observe performance Step 1).	1.	Puts on CVC helmet and connects to intercom set 2298/VRC.			
2.	Announce "POSITION INTERCOM CONTROLS TO RECEIVER-TRANSMITTER,"	2.	Moves MONITOR switch to ALL, A, or B.			
	and observe performance (steps 2-3).	3.	Adjusts VOLUME knob to desired level.			
3.	Announce "POSITION INTERCOM CONTROLS TO TALK TO CREW ONLY," and observe	4.	Moves MONITOR switch to INT ONLY.			
	performance (steps 4-5).	5.	Adjusts VOLUME knob to desired level.			
4.	Score total task performance	e.				
	Go F		NO GO			

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TASK: IDENTIFY MAIN GUN AMMUNITION.

TRAINING MODULE NO: TIME: 15 MINUTES

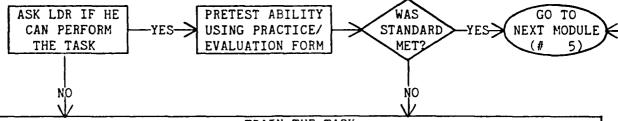
PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: FM 17-12-3; TEC 020-171-5331F; TEC 2E-171-0067-B;

FK-AR-47-68; FK-ARS-39-74; FM 9-13. 1 M60A3 TANK WITH BASIC LOAD OR CLASSROOM/MOTOR POOL: SUPPORT REQUIREMENTS:

1 DUMMY ROUND OF EACH AMMO OR COLOR PICTURES OF EACH

ROUND.



#### TRAIN THE TASK

## INTRODUCE

providers recocceed assistants recoccess approved

- State performance task and training standards in your own words.
- 2. Emphasize safety required in handling ammo (warnings).
- Identify the types of main gun ammo and describe their use.
- Specify major components of main gun ammo.
- Describe color codes and markings.

## DEMONSTRATE

- 1. Select a round of main gun ammo.
- 2. Identify specific type and name.
- State how it's announced in fire command.
- Describe how it's employed.
- Point out its size and shape.
- Show color codes and markings.
- Repeat steps 1-6 for each round, pointing out similarities and differences.

#### PRACTICE

- Select a round of main gun ammo.
- Ask Loader to name the specific round, state how it's announced in fire command, and how its employed or used. (Use Practice/Evaluation Form.)
- 3. Critique Loader's performance while reinforcing correct responses.
- Repeat steps 1-3 for all ammunition types.
- Repeat steps 1-4 until satisfied with Loader's performance.

## EVALUATE

- Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Identifies main gun accountion correctly and without delay.

STANDAR

7

	TC		LOADER	
	BEGIN EXERCISE: GO	NO GO	GO NO GO	GO NO GO
	II	DENTIFIES ROUND	PRONOUNCES NAME	STATES EMPLOYMENT
1.	Point (display)APDS round			
2.	Point (display) HEAT round			
3.	Point (display) HEP round			
4.	Point (display)APERS round			
5.	Point (display) SMOKE round			
6.	Score total task performance.			
		GO	NO GO	

OPERATE AMMO STOWAGE RACKS.

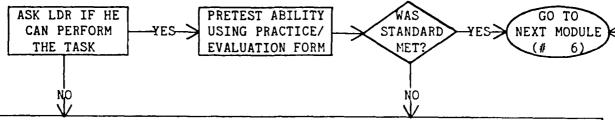
TRAINING MODULE NO:

TIME: 10 MINUTES

PREREQUISITE TASKS: IDENTIFY MAIN GUN AMMUNITION.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; 3 MAIN GUN ROUNDS (DUMMY).



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling main gun ammo (warnings).

### DEMONSTRATE

- 1. Position LDR in turret where he can best observe the task procedures.
- 2. Obtain a main gun round (dummy).
- 3. Place round in ammo ready rack and secure.
- 4. Remove round from ready rack and stow in tubular rack.
- 5. Remove round from tubular rack and stow in turret bustle rack.
- 6. Remove round from turret bustle rack.
- 7. Report stope 1 6, denomining how to perform each part of the tasks.

### PRACTICE

- Hand the main gun round (dummy) to Loader. (Use Practice/Evaluation Form.)
- 2. Instruct Loader to stow the round in ready rack.
- 3. Critique Loader's performance while reinforcing correct responses.
- 4. Instruct Loader to remove round and stow in tubular rack.
- 5. Critique Loader's performance while reinforcing correct responses.
- 6. Instruct Loader to remove round and stow in turret bustle rack.
- 7. Critique Loader's performance while reinforcing correct responses.
- 8. Repeat steps 1-7 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Operates ammo stowage racks correctly and without delay.

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## LOADER

	BEGIN EXERCISE:			GO	NO GO
1.	Hand loader main gun round, announce "STOW ROUND IN READY RACK AND REMOVE," and observe performance (steps 1-5).	1.	Places primer end of round down into rack.		
		2.	Swings hinge of holder up and to the left.		
		3.	Pulls out spring loaded knob.		
		4.	Slides hinge slot over rod behind knob and releases.		
		5.	Removes round.		
2.	Announce "STOW ROUND IN TUBULAR RACK AND REMOVE," and observe performance (steps 6-9).	6.	Pushes round in tubular rack nose first.		
		7.	Swings handle lock over primer-end of round.		
		8.	Rotates handle lock securely in place.		
		9.	Removes round.		
2.	Announce "STOW ROUND IN TURRET BUSTLE RACK AND REMOVE," and observe performance (steps 10-14).	10.	Seats round in turret bustle rack with nose toward inside of turret		
		11.	Swings hinge up and to the left.		
		12.	Pulls up clamp and slotting hinge below clamp.		
		13.	Pulls clamp down to secure round.		
		14.	Removes round.		
4.	Score total performance.				

110 GO [

CREW POSITION: LOADER

TASK: STOW MAIN GUN AND COAX AMMUNITION.

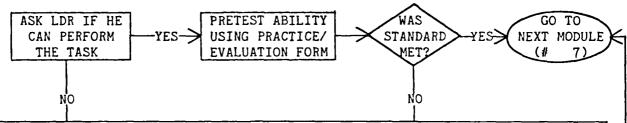
PREREQUISITE TASKS: IDENTIFY MAIN GUN AMMUNITION;

OPERATE AMMO STOWAGE RACKS.

TRAINING REFERENCES: FM 17-12-3; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK WITH OR WITHOUT BASIC LOAD (PARTIAL);

LIVE OR DUMMY MAIN GUN AMMUNITION; 1 BELT OF COAX



AMMUNITION; AMMO STOWAGE PLAN (AT LEAST THREE).

#### TRAIN THE TASK

#### INTRODUCE

BANGARAS CONOVEN BOOKSING THE TOTAL

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling ammunition (warnings).
- 3. Describe purpose/use of ammo stowage plan.

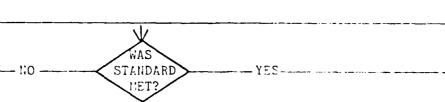
## DEMONSTRATE

- 1. Count number of main gun rounds needed from ammo stowage plan.
- 2. Request rounds of each given type as needed.
- Stow round in ammo racks according to stowage plan.
- Determine and request needed belts of coax ammo.
- 5. Stow coax ammo in ready box.

## PRACTICE

- 1. Hand Loader an ammo stowage plan (previously prepared).
- 2. Instruct Loader to stow main gun and coax ammo.
- 3. Role play the part of assisting crew man (use Practice/Evaluation Form).
- 4. Critique Loader's performance while reinforcing correct responses.
- 5. Repeat steps 1-4 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Stows main gun and coax ammo correctly and without delay.



	TC		LOADER			
	BEGIN EXERCISE:			GO	NO	GO
1.	Acting as assisting crew member, hand loader copy of ammo stowage plan (prepared in advance), announce "STOW MAIN GUN AND COAX AMMUNITION and observe performance (steps 1-6).		Determines exact number of main gun rounds and coax ammunition needed to satisfy ammo stowage plan.			
		2.	Requests one type of main gun round at a time.			
2.	Hand a round primer-end first and determine per-formance.	3.	Insists that rounds be handed nose down into turret.			
		4.	Protects nose and primer-end of ammo being stowed.			
		5.	Stows correct number of rounds of each type in ready, tubular, and turret bustle racks.			
		6.	Removes round from coax belt, links belts toge- ther, and folds in coax ready box.			
3.	Score total task performance	€.				
	GO [		NO GO	-		

TRAINING MODULE NO:

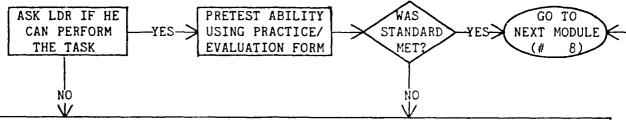
TASK: OPEN/CLOSE 105-MM MAIN GUN BREECH MANUALLY.

TIME: 15 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK/TURRET TRAINER: 4X6-INCH WOOD BLOCK.



#### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements (warnings).

#### DEMONSTRATE

- 1. Position LDR in turret where he can best observe the task procedure.
- 2. Place main gun safety in FIRE and SAFE positions.
- 3. Point out auto operation and reset to SAFE.
- 4. Open the breech, carefully pointing out each action.
- 5. Provide examples of injury to personnel when handle is left down,
- 6. Close the breech, using recommended techniques.
- 7. Repeat procedure for opening/closing the breech manually without interruption.

#### PRACTICE

- 1. Walk/Talk the Loader through opening the breech manually (use Practice/Evaluation Form).
- 2. Ask Loader why the handle is locked in "UP" position.
- 3. Walk/Talk the Loader through closing the breech manually.
- 4. Critique Loader's performance while reinforcing correct responses.
- 5. Repeat steps 1-4 while gradually removing prompts/cues.
- 6. Repeat steps 1-5 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Manually opens and closes 105-rm rain gun breech correctly and without delay.



	<u>TC</u>		LOADER	
	BEGIN EXERCISE:			GO NO GO
1.	Place Main Gun Safety in SAFE, close breech, then announce "OPEN THE BREECH	1.	Insures SAFETY in SAFE position.	
	MANUALLY," and observe performance (steps 1-4).	2.	Depresses plunger to release breech operating handle.	
		3.	Pulls handle down until extractors lock in position.	
		4.	Returns handle to fully "UP" and secured position.	
2.	Announce "CLOSE THE BREECH MANUALLY," and observe performance (steps 5-9).	5.	Insures SAFETY in SAFE position.	
		6.	Depresses plunger to release breech operating handle.	
		7.	Holds operating handle down firmly while push- ing forward on extracto releasing them one at a time.	•
		8.	Gradually releases downward pressure on operating handle, allow ing breech to close slowly.	-
		9.	Places handle in fully "UP" and secured position.	
3.	Score total task performanc	е.		
	GO		NO GO	

TASK: LOAD/UNLOAD THE 105-MM MAIN GUN.

TRAINING MODULE NO: 8

TIME: 15 MINUTES

PREREQUISITE TASKS: IDENTIFY MAIN GUN AMMUNITION;

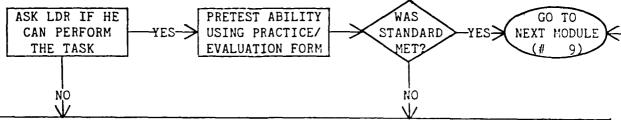
STOW MAIN GUN AND COAX AMMUNITION: OPEN/CLOSE MAIN

GUN BREECH MANUALLY.

TRAINING REFERENCES: FM 17-19 E1/2; TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER: 1 ROUND OF SABOT

AMMUNITION (DUMMY).



#### TRAIN THE TASK

#### INTRODUCE

CONTRACT CONTRACTOR CONTRACTOR CONTRACTOR

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling ammunition (warnings).

## DEMONSTRATE

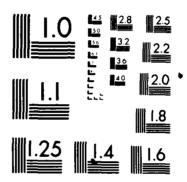
- 1. Position LDR in turret where he can best observe task performance.
- 2. Ensure main gun Safety is in SAFE and open the breech manually.
- 3. Remove round from stowage rack and place round half-way into breech.
- 4. Describe round loading technique and then load the round.
- 5. Describe round unloading procedure.
- 6. Ensure main gun Safety is in SAFE and open the breech manually.
- 7. homove one round and stow in tubular rack.
- Repeat the entire leading/unloading procedure, without interruption.

#### PRACTICE

- Walk/talk LDR in opening the breech (ensure main gun Safety in SAFE).
- Walk/talk LDR in removing a round from tubular rack and placing half-way into breech.
- 3. Walk/talk LDR in unloading the round.
- 4. Have Loader open the breech, without prompting.
- 5. Critique performance while reinforcing correct responses.
- 6. Have Loader unload the round and stow in tubular rack, without prompting.
- 7. Critique performance while reinforcing correct responses.
- 8. Repeat steps 1-8 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Loads/Unloads the 105-xm rain gun correctly and without delay.

	TC		LOADER
	BEGIN EXERCISE:		GO NO GO
1.	Place Main Gun Safety in SAFE, open breech, then announce "LOAD THE MAIN		Insures main gun Safety in SAFE.
	GUN," and observe performance (steps 1-4).	2.	Removes round from tubular stowage rack.
		3.	Places round into breech about one-half way.
		4.	Pushes round into cham- ber with heel of fist, swinging arm up and away from closing breech.
2.	Announce "UNLOAD THE MAIN GUN," and observe perfor-		Insure main gun Safety in SAFE.
	mance (steps 5-7).	6.	Opens the breech man- ually, keeping round from falling on turret floor.
		7.	Removes round, protect—
		8.	Places round in tubular rack and stows securely.
3.	Repeat above procedure for three separate trials, scoring total task perfor- mance after each trial.		
	LOADING		UNLOADING
	TRIAL 1 TRIAL 2 TRIA	L 3	TRIAL 1 TPIAL 2 TRIAL 3
	GO NO GO GO NO GO	0 GO	GO 1:0 GO GO GO MC GO



STREET SUPPLIES OFFICE OFFICE SERVINGS SECTIONS

PRINCIPLE MANAGEMENT CONSIDER CONTRACTOR PRINCIPLE

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TASK: APPLY LOADER MISFIRE PROCEDURES TO TRAINING MODULE NO:

TIME: 10 MINUTES

105-MM MAIN GUN.

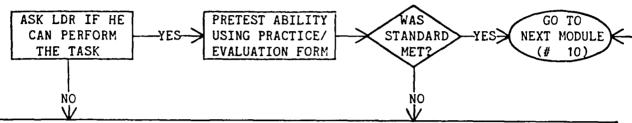
PREREQUISITE TASKS: LOAD/UNLOAD THE MAIN GUN; IDENTIFY MAIN

GUN AMMO: OPERATE AMMO STOWAGE RACKS.

TRAINING REFERENCES: TM 9-2350-215-10; TEC 020-171-5347-F; FM 17-19 E1/2.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER: 1 ROUND OF MAIN GUN

AMMUNITION (DUMMY).



#### TRAIN THE TASK

### INTRODUCE

- State performance task and training standards in your own words.
- 2. Discuss MISFIRE and the procedures followed by the tank gunner.
- Emphasize requirement to wait 2 minutes before opening breech.

### DEMONSTRATE

- 1. Load a dummy main gun round and place Safety in FIRE.
- 2. Position Loader in turret where he can best observe task performance.
- Tell Loader the main gun round has misfired, that you waited the required 2 minutes before opening the breech, and announce MISFIRE.
- Walk/talk through the Loader's misfire procedures (use Practice/Evaluation Form).
- Repeat the entire Loader misfire procedures, without interruption.

## PRACTICE

- 1. Move to gunner's station/seat where you can observe LDR performance.
- 2. Walk/talk Loader through misfire procedure (use Practice/Evaluation form).
- Assist as TC in round removal task. 3.
- Critique Loader's performance while reinforcing correct responses.
- Repeat steps 2-4 until satisfied with Loader's performance.

## EVALUATE

- Instruct Loader on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form. 2.

NO.

Test to Standard: Apply Loader misfire procedure to 105-mm Main Gun correctly and without delay.

> WAS STANDARD

	<u>TC</u>		LOADER		
	BEGIN EXERCISE:			GO	NO GO
1.	Place main gun safety in FIRE, instruct LDR that SABOT is preloaded,	1.	Places main gun firing safety switch in SAFE position.		
	announce "MISFIRE," and observe performance (steps 1-7).	2.	Opens breech slowly enough to extract round half-way.		
		3.	Rotates round one-half turn.		
		4.	Pushes round into chamber with heel of fist, swinging arm up-and-away from closing breech.		
		5.	Moves clear of path of recoil.		
		6.	Places main gun firing safety switch in FIRE position.		
		7.	Announces "UP".		
2.	Announce "MISFIRE," assist in round removal (TC), and observe performance (steps 8-10).	8.	Place main gun firing safety switch in SAFE position.		
		9.	Open the breech slowly while the TC catches th ejecting round.	e	
		10.	Assist TC in removing round from task.		
3.	Score total task performance	e.			

GO \_\_\_\_

NO GO

TRAINING MODULE NO:

TASK: RESPONDING TO BATTLESIGHT FIRE COMMANDS. TIME: 10 MINUTES PREREQUISITE TASKS: OPEN/CLOSE 105-MM MAIN GUN BREECH MANUALLY: STOW

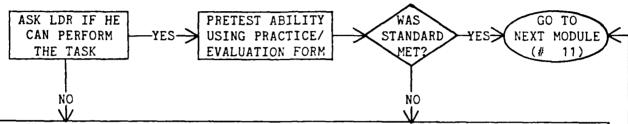
MAIN GUN AND COAX AMMUNITION: IDENTIFY MAIN GUN AMMU-NITION: LOAD AND UNLOAD THE 105-MM MAIN GUN: OPERATE

AMMO STOWAGE RACKS.

TRAINING REFERENCES: TM 9-2350-253-10: FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER: 1 ROUND OF SABOT

AMMUNITION (DUMMY).



#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling ammunition, and opening and closing the breech manually.

### DEMONSTRATE

- 1. Instruct Loader to assume main gun is preloaded (breech CLOSED) with SABOT.
- 2. ISSUE Dattiesight ii. C command: "GUNNER-BATTLESIGHT-TANK.".
- 3. Class path of Absoil, place Main Gun Safety in FIRE, and announce "UP."
- 4. Remove SABOT round from ready rack (prepare to reload).
- Simulate target hit (announce "CEASE FIRE").
- Restow round in ready rack.

#### PRACTICE

- 1. Close the breech, place Main Gun Safety in SAFE.
- 2. Instruct Loader to assume main gun is preloaded with SABOT.
- 3. Issue Eattlesight fire command (use the Practice/Evaluation Form).
- 4. Command "CEASE FIRE" and have the Loader restow SABOT round.
- Critique Loader's performance while reinforcing correct responses.
- Repeat steps 1-5 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Responds to tattlesight fire commands correctly and without delay.



	<u>TC</u>		LOADER	
	BEGIN EXERCISE:			GO NO GO
1.	Place Main Gun Safety in SAFE, instruct LDR that	1.	Clears path of recoil	
	SABOT is loaded (breech closed), command "GUNNER-BATTLESIGHT-TANK," and	2.	Places Main Gun Safet in FIRE.	у
	observe performance (steps 1-4).	3.	Announces "UP."	
	(300)0 1-47,	4.	Removes SABOT round from stowage and wait to reload.	s
2.	Command "CEASE FIRE" and score performance trial.		(Restow SABOT round i stowage rack.)	n
3.	Repeat steps 1-3 for two more trials.			
	TRIAL 1		TRIAL 2 T	RIAL 3
	GO NO GO	,	GO NO GO G	O NO GO

RESPOND TO PRECISION FIRE COMMANDS

TRAINING MODULE NO: 1'TIME: 15 MINUTES

REQUIRING A FIRST ROUND AMMO CHANGE.

PREREQUISITE TASKS: OPEN/CLOSE 105-MM BREECH MANUALLY; STOW MAIN GUN AND

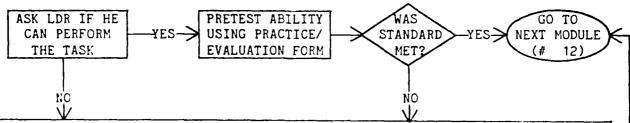
COAX AMMUNITION; IDENTIFY MAIN GUN AMMUNITION; LOAD/

UNLOAD THE 105-MM MAIN GUN: OPERATE AMMO STOWAGE RACKS.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; 1 ROUND OF SABOT AND

2 ROUNDS OF HEAT AMMUNITION (DUMMY).



#### TRAIN THE TASK

#### INTRODUCE

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- 1. State performance task and training standards in your own words.
- Emphasize safety precautions when handling ammunition, and opening/closing the breech manually.

### DEMONSTRATE

- 1. Instruct Loader to assure main gun is preloaded (breech CLOSED) with SABOT.
- 2. Issue fire command: "GUNNER-HEAT-TANK."
- 3. Check safety, open breech, remove/stow SABOT round in empty tubular rack.
- 4. Remove NIAT round and load into breech.
- 5. Clear path of monoil, plans Safety in FIRE, and announce "HEAT LOADED."
- 6. Remove HEAT round from tubular rack (prepare to reload).
- 7. Instruct Loader to assume target was hit (announce "CEASE FIRE").
- Stow both HEAT rounds in tubular racks.

#### PRACTICE

- 1. Load SABOT round, close breech, place Main Gun Safety in SAFE.
- 2. Instruct Loader to assume main gun is preloaded with SABOT.
- 3. Issue Fire Command (use the Practice/Evaluation Form).
- 4. Command "CEASE FIRE" (after Loader has prepared to reload).
- 5. Critique Loader's performance while reinforcing correct responses.
- 6. Repeat steps 1-5 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Responds to precision fire commands requiring a first round ammo change correctly and without delay.

	<u>TC</u>		LOADER	
	BEGIN EXERCISE:			GO NO GO
1.	Place Main Gun Safety in SAFE, instruct InR that SABOT is preloaded (breech	1.	Insures Main Gun Safety in SAFE.	
	closed), command "GUNNER-HEAT-TANK," and	2.	Opens breech manually.	
	observe performance (steps 1-6).	3.	Removes round and stows in tubular ammo rack.	
		4.	Removes HEAT round from tubular ammo rack and loads in main gun.	
		5.	Clears path of recoil, places Main Gun Safety in FIRE, and announces "HEAT LOADED."	
		6.	Removes HEAT round from tubular ammo rack and waits to reload.	
2.	Command "CEASE FIRE" and score performance trial	· •	(Restow HEAT rounds in ammo stowage racks.)	
3.	Repeat steps 1-3 for two			
	TRIAL 1		TRIAL 2	TRIAL 3
	GO NO GO		GO NO GO	GO NO GO

TASK: RESPOND TO PRECISION FIRE COMMANDS

TRAINING MODULE NO:

TIME: 15 MINUTES

REQUIRING A SECOND ROUND AMMO CHANGE.

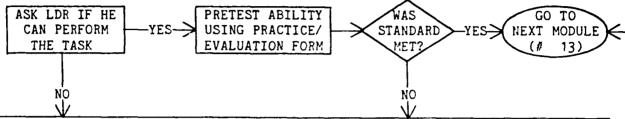
PREREQUISITE TASKS: OPEN/CLOSE 105-MM MAIN GUN BREECH MANUALLY; STOW MAIN

GUN AND COAX AMMUNITION; IDENTIFY MAIN GUN AMMUNITION; LOAD/UNLOAD THE MAIN GUN: OPERATE AMMO STOWAGE RACKS.

TRAINING REFERENCES: TM 9-2350-253-10: FM 17-12-3.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER: 2 ROUNDS OF HEAT

AMMUNITION (DUMMY).



#### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling ammunition, and opening/closing the breech manually.

### DEMONSTRATE

- Instruct Loader to assume main gun is preloaded (breech OPENED) with SABOT.
- 2. Issue Precision fire command: "GUNNER-SABOT-TANK . . . FIRE, FIRE HEAT."
- 3. Clear path of recoil, place Main Gun Safety in FIRE, and announce "UP."
- 4. Remove HEAT round from tubular rack (prepare to reload).
- 5. Simulate first round fired (place Safety in SAFE).
- 6. Clear path of record, place before in FIRE, load HEAT round, announce "HEAT LCDDD."
- 7. Remove HEAT round from tubular rack (prepare to reload).
- 8. Simulate target hit (announce "CEASE FIRE").
- 9. Stow both HEAT rounds in tubular rack.

## PRACTICE

- 1. Open breech, place Main Gun Safety in SAFE.
- 2. Instruct Loader to assume main gun is preloaded with SABOT.
- 3. Issue Fire Command (use the Practice/Evaluation Form).
- 4. Simulate first round fired (place Safety in SAFE).
- 5. Command "CEASE FIRE" (after Loader has prepared to reload).
- 6. Critique Loader's performance while reinforcing correct responses.
- 7. Repeat steps 1-6 until satisfied with Loader's performance.

#### EVALUATE

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Responds to precision fire commands requiring a second round anno change correctly and without delay.

WAS STANIARD YET?

-YE:

	<u>10</u>		LOADER		
	BEGIN EXERCISE:			GO	NO GO
۱.	Place Main Gun Safety in SAFE, instruct LDR that	1.	Clears path of recoil.		
	SABOT is preloaded (breech closed), command "GUNNER-SABOT-TANK	2.	Places Main Gun Safety in FIRE.		
	FIRE, FIRE HEAT," and observe performance	3.	Announces "UP."		
	(steps 1-4).	4.	Removes HEAT round from tubular ammo rack and waits to reload.		
2.	Command "CEASE FIRE," and score performance trial.		(Restow HEAT round in ammo stowage rack.)		
3.	Repeat steps 1-3 for three trials.				
	GO NO GO	G	O NO GO GO N	10 GO	

AND THE PROPERTY NAVAGES SHARKEN RECORDER.

TASK: LOAD THE M240 7.62-MM COAX MACHINEGUN.

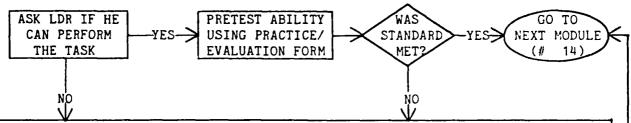
TRAINING MODULE NO: 13
TIME: 10 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10; FKG-23-10-1.

SUPPORT REQUIREMENTS: 1 M240 MACHINEGUN; 1 BELT OF 7.62 DUMMY AMMO

(10 ROUNDS).



#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling M240 and ammunition.

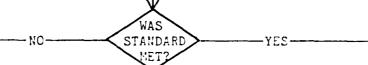
#### DEMONSTRATE

- 1. Place the M240 safety in "F" and position ammo nearby.
- 2. Walk/Talk the Loader through each performance step.
- 3. Ask/Answer questions about loading the M240.
- 4. Repeat the entire loading procedure, without interruption.

## PRACTICE

- 1. Place M240 safety in "F"; position ammo nearby.
- 2. Guide the Loader through the the M240 loading procedure (use Practice/Evaluation Form).
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat the task, gradually removing prompts/cues.
- 5. Repeat steps 1-4 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Loads the M240 7.62-MM Coax Machinegun correctly and without delay.



	<u>TC</u>		LOADER		
	BEGIN EXERCISE:			GO	NO GO
1.	Place safety in "F", posi- tion ammo nearby, announce "LOAD THE M240 MACHINEGUN,"	1.	Insures safety is in "F" and charges the coax.		
	and observe performance (steps 1-7).	2.	Places safety in "S."		
	(30cps 1-17.	3.	Opens cover and raises feed tray.		
		4.	Physically inspects the chamber for ammo.		
		5.	Lower feed tray.		
2.	Check that open slot on links is facing down into slot on feed tray	6.	Places link belt in feed tray; first round against cartridge stop.		
		7.	Closes cover assembly.		
3.	Score total task performance	e.			
	CO F	<u>-</u>	NO GO	٠,	

CREW POSITION: LOADER

TASK: CLEAR THE M240 7.62-MM COAX MACHINEGUN.

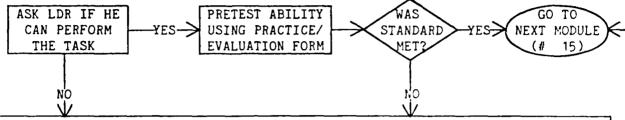
TIME: 10 MINUTES

PREREQUISITE TASKS: LOAD THE M240 7.62-MM COAX MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FKG 23-10-1.

SUPPORT REQUIREMENTS: 1 M240 MACHINEGUN; 1 BELT OF 7.62-MM DUMMY AMMO

(10 ROUNDS).



#### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety precautions when handling M240 and ammunition.

## DEMONSTRATE

- 1. Load the M240 machinegun and place safety in "S".
- 2. Walk/Talk the Loader through each performance step.
- 3. Ask/Answer questions about clearing the M240.
- 4. Repeat the entire clearing procedure, without interruption.

## PRACTICE

- 1. Toad the MOUN machinegum and mlace safety in "S".
- 2. Guide the Loader through clearing the M240 machinegum (use .ractice/Evaluation Form).
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat the task, gradually removing prompts/cues.
- 5. Repeat steps 1-4 until satisfied with Loader's performance.

#### EVALUATE

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Clears the M240 7.62-MM Coax Machinegun correctly and without delay.

NO STANDARD YES-

	<u>TC</u>		LOADER			
	BEGIN EXERCISE:			GO	NO C	30
1.	Load coax, position safety in "F", announce "CLEAR THE COAX," and observe performance (steps 1-8).	1.	Insures safety is in "F" and charges the coax.		<u> </u>	
		2.	Places safety in "S."			
		3.	Opens cover and removes ammo belt.			
		4.	Raires feed tray and physically checks chamber for ammo.			
		5.	Lowers feed tray.			
		6.	Places safety in "F" and charges the coax.			
		7.	Depresses trigger, allowing recoiling parts to <u>ease</u> forward.	3		
		8.	Closes the cover.			
2.	Score total task performance	€.				
	GO [		NO GO			

MOUNT/DISMOUNT THE M240 7.62-MM COAX

TRAINING MODULE NO:

15

TIME: 10 MINUTES

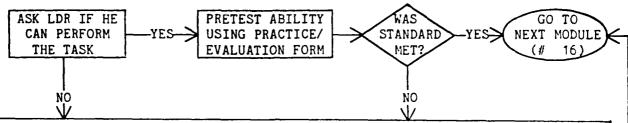
MACHINEGUN.

PREREQUISITE TASKS: CLEAR THE M240 7.62-MM COAX MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-19E 1/2; FKG 17/42-2.

SUPPORT REQUIREMENTS: 1 M240 7.62-MM MACHINEGUN; CARTRIDGE BAG; TRAVEL

LOCK; 1 M60A3 TANK OR TURRET TRAINER.



#### TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.

## DEMONSTRATE

- 1. Clear the machinegum, noting that it is the first step in mounting/dismounting the coax machinegum.
- 2. Install and remove cartridge bag and travel lock.
- Walk/talk through the mounting procedure (use Practice/Evaluation Form).
- 4. Walk/talk through the dismounting procedure (use Practice/Evaluation Form).
- 5. : Connect solenoid load with solectrical land from main gun.
- 6. Repeat the entire procedure, without interruption.

## PRACTICE

- 1. Instruct the Loader to perform each step in mounting the M240 as you announce them (use Practice/Evaluation Form.)
- 2. Repeat this procedure for dismounting the M240.
- 3. Instruct Loader to perform the mounting/dismounting tasks, without prompting.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 3-4 until satisfied with Loader's performance.

#### EVALUATE

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Mounts and dismounts the M240 7.62-MM Coax anchinegum correctly and without delay.

WAS STANDARD -----YE MET?

	<u>TC</u>		LOADER	
	BEGIN EXERCISE:			GO NO GO
1.	Announce "Mount the M240 7.62-MM Coax Machinegun,"	1.	Clears the machinegun.	
	and observe loader's performance (steps 1-5).	2.	Places cartridge bag on bag support and secures with snap fasteners.	
		3.	Removes travel lock and stores in oddment tray.	
		4.	Slides machinegun into mount, pushing front and rear pin assemblies untithey snap into detents.	
		5.	Checks electrical con- nection.	
2.	Announce "STOP. Dismount	6.	Clears the machinegun.	
	the M240 7.62-MM Coax Machinegun," and observe performance (steps 1-5).	7.	Pulls front and rear pin assembly out from one detent to the next.	
		8.	Lifts base of machine- gun and then pulls it to rear to remove.	
		9.	Installs the travel lock in place of machinegun.	
		10.	Releases snap fasteners and removes cartridge bag from bag support.	
3•	Announce "STOP," and score total task performance.			·

NO GO [

GO \_\_\_\_

TRAINING MODULE NO:

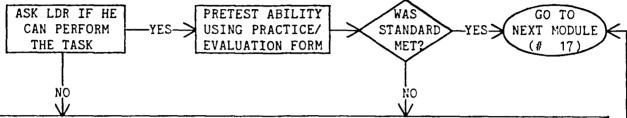
TASK: BORESIGHT THE M240 7.62-MM COAX MACHINEGUN.TIME: 15 MINUTES

PREREQUISITE TASKS: CLEAR THE M240 7.62-MM COAX MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-19E 1/2; FKG 17-30-1.

SUPPORT REQUIREMENTS: 1 M240 7.62-MM MACHINEGUN: 1 M60A3 TANK: TARGET PANEL

A 1200 METERS, AND 1 M17A1 BINOCULARS.



### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.
- 3. Explain purpose of boresighting the COAX Machinegun.

## DEMONSTRATE

- 1. Clear machinegum, noting that it's the first step in boresighting the coax.
- 2. Walk/talk through procedures (steps) to remove operating rod and bolt.
- 3. Walk/talk through remaining steps to center barrel on target aiming point.
- ". Install operating rod and holt.
- 5. Fun through the entire M240 boresight procedure, without interruption.

#### > | PRACTICE

- 1. Instruct the Loader to perform each step in boresighting the M240 as you announce them (use Practice/Evaluation Form).
- 2. Critique performance while reinforcing correct responses.
- 3. Have the Loader perform the boresight procedure on his own.
- 4. Gradually remove all prompts and cues as the Loader learns the task.
- 5. Repeat steps 2-4 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: M240 Machinegum barrel is vertically and horizontally centered on target aiming point without delay.



LOADER

10	

SEE THE PROPERTY OF THE PROPER

1. Announce "BORESIGHT THE M240 7.62-MM COAX MACH	-	Clears the machinegun.		
GUN, and observe performance (steps 1-12).		Removes buffer.		
	3.	Removes driving spring.		
	4.	Raises cover and feed tray.		
	5.	Pulls charger handle back, removing operating rod and bolt.		
	6.	Loosens front adjust- ment nut.		
	7.	Sights through barrel bore using one side of M17A1 binoculars.		
	8.	Uses horizontal bore- sight knob to center barrel on target aiming point.		
	9.	Uses vertical boresight hand to center barrel of target aiming point.		
	10.	Tightens adjustment nut (until tension is felt) then tightens additiona 1/3 turn.	,	
	11.	Rechecks lay of machinegun.		
	12.	If error exists, repeat steps 6 through 11.	s	

2. Score total task performance, looking through M17A1 binoculars to determine if M240 is boresighted.

GO	NO GO
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TRAINING MODULE NO:

TASK: TAKE IMMEDIATE ACTION ON M240 7.62-MM COAX TIME: 10 MINUTES

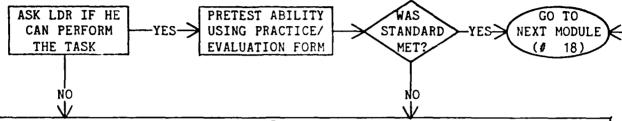
MACHINEGUN STOPPAGE.

PREREQUISITE TASKS: LOAD M240 MACHINEGUN; CLEAR M240 MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FKG 23-10-1.

SUPPORT REQUIREMENTS: 1 M240 MACHINEGUN; 1 BELT OF 7.62-MM DUMMY AMMO

(10 ROUNDS).



### TRAIN THE TASK

## INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements in handling M240 (hot gun) and ammunition.
- 3. Explain difference between a cold gun versus hot gun (definition).

### DEMONSTRATE

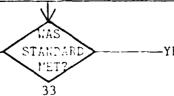
- 1. Load M240 and place safety in "F".
- 2. Announce "STOPPAGE," then walk/talk Loader through the "cold gun" procedure.
- 3. Count out loud to five after 1st, 2d, and 3d stoppages.
- 4. Run through the entire immediate action procedure, without interruption.
- 5. Repeat walk/talk through for the "hot gun" procedure.
- Point out (highlight) differences between hot vs. cold gun procedures.

## PRACTICE

- 1. Load M240 and place safety in "F."
- 2. Instruct Loader to take immediate action for M240 (cold gun) stoppage.
- 3. Observe performance (use Practice/Evaluation Form).
- Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-4 until satisfied with Loader's performance.
- 6. Instruct Loader to take immediate action for M240 (hot gun) stoppage.
- 7. Observe performance (use Practice/Evaluation Form).
- 8. Critique performance while reinforcing correct responses.
- 9. Repeat steps 6-8 until satisfied with Loader's performance.

#### [ EVALUATE ]

- Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Takes immediate action on 1/240 7.62-1/M Coax Machinegun stoppage correctly and without delay.



TC

## LOADER

	BEGIN EXERCISE:			GO	NO GO
1.	Load M240, place safety in "F", announce "GUN IS COLD. STOPPAGE," and observe performance (steps 1-9).		Waits five second (by counting 1-5 out loud) for a hangfire.		
	per ret mande (bueps 1-),.	2.	Charges weapon and announces "UP."		
2.	Announce "STOPPAGE."	3.	Waits five seconds (by		
		4.	counting 1-5 out loud). Clears the M240.		
		5.	Hand functions M240.		
		6.	Reloads and announces		
3.	Announce "STOPPAGE."	7.	Waits five seconds (by		
		8.	counting 1-5 out loud). Clear weapon.		
		9.	Indicates he would in- vestigate cause of		
4.	Load M240, place safety in "F", announce "GUN IS HOT.	10.	stoppage. Waits five seconds (by counting 1-5 out loud)		
	STOPPAGE," and observe performance (steps 10-17).	11.	•		
ζ.	Announce "STOPPAGE."	12.	nounces "UP." Waits five seconds (by		
		13.	counting 1-5 out loud). Charges the M240.		
		14.			
6.	Inform loader that a round	15.			
	is still chambered.	16.	safety in "F." Depresses trigger, al- lowing recoiling parts		
		17.	to go forward. Indicates he would leave M240 pointed down range for 15 minutes.		
7.	Score total task performance	ce.			
	GO		NO GO		

DISASSEMBLE/ASSEMBLE M240 7.62-MM COAX

TRAINING MODULE NO: TIME: 30 MINUTES

TASK:

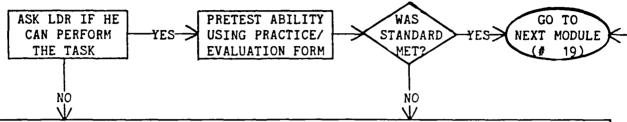
MACHINEGUN.

PREREQUISITE TASKS: CLEAR THE M240 7.62-MM COAX MACHINEGUN.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-19E1/2; TM 9-1005-313-10;

TEC 9-020-171-1141-F.

SUPPORT REQUIREMENTS: 1 M240 7.62-MM COAX MACHINEGUN.



### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.

#### DEMONSTRATE

- 1. Clear the machinegum, pointing out that this is a prerequisite task.
- 2. Remove barrel assembly, laying parts removed in order for installation.
- 3. Remove buffer assembly (make sure safety is in the "F" position).
- 4. Remove driving spring.
- 5. Remove operating rod and bolt assembly.
- 6. Remove trigger pin, trigger, and frame assembly.
- 7. Remove axis pin, cover assembly, and feed tray.
- 8. Assemble (use Practice/Evaluation Form).
- 9. Perform a function check, explaining purpose.

## PRACTICE

- 1. Instruct Loader to disassemble M240, describing each step as he performs
- 2. Provide prompts and cues to guide performance (use Practice/Evaluation Form).
- 3. Critique performance while reinforcing correct responses.
- 4. Repeat steps 1-3 for assembly of machinegun (use Practice/Evaluation
- 5. Repeat steps 1-4 until satisfied with Loader's performance.

### EVALUATE

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Disassembles and assembles the M240 7.62-MM Coax Machinegun, including a function check, correctly and without delay.

WAS STANDARD MET:

	TC		LOADER		
	BEGIN EXERCISE:			GO	NO GO
1.	Announce "Disassemble M240 7.62-MM Coax Machinegun,"	1.	Removes barrel.		
	and observe performance (steps 1-9).	2.	Checks safety is in F.		
	(Sueps 1-97.	3.	Removes buffer assembly.	·	
		4.	Removes driving spring.		
		5.	Removes operating rod and bolt assembly.		
		6.	•		
		7.	Removes trigger and frame assembly.		
		8.	_		
		9.	Removes cover assembly and feed tray.		
2.	Announce "STOP. Assemble M240 7.62-MM Coax Machine-	10.	Installs feedtray and cover assembly.		
	gun," and observe performance (steps 10-18).	11.	•		
	•	12.	Installs trigger and frame assembly.		
		13.	Installs trigger pin.		
		14.	Installs operating rod and bolt assembly.		
		15.	Installs driving spring		
		16.	<pre>Installs buffer as- sembly.</pre>		
		17.	Installs barrel.		
		18.	Performs function check by pulling charger handle to rear, and depressing trigger while easing bolt assembly forward.		L
3.	Score total task performance	ce.			
	GO [		NO GO		

CREW POSITION: LOADER

TASK: PERFORM LOADER'S PREPARE-TO-FIRE CHECKS. TIME: 20 MINUTES

PREREQUISITE TASKS: CHECK REPLENISHER TAPE; OPEN/CLOSE BREECH MANUALLY;

IDENTIFY MAIN GUN AMMUNITION; OPERATE AMMO STOWAGE

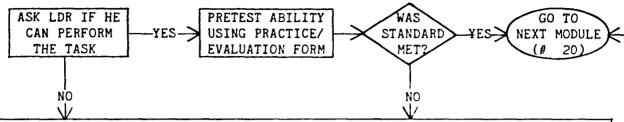
RACKS; CONDUCT FIRING CIRCUIT TEST; CLEAR COAX MG;

LOAD COAX MG; LOAD MAIN GUN; LOCK/UNLOCK TURRET.

TRAINING REFERENCES: TM 9-2350-253-10; FKG 17-29-1.

SUPPORT REQUIREMENTS: 1 MAIN GUN ROUND (DUMMY); FIRING CIRCUIT TESTER;

1 M60A3 TANK OR TURRET TRAINER.



#### TRAIN THE TASK

### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Explain how the prepare-to-fire checks are initiated by TC.

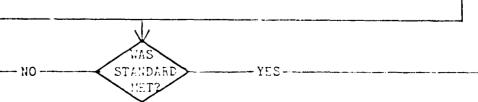
#### DEMONSTRATE

- Announce "PREPARE TO FIRE."
- 2. Walk/talk through the checks. (Use Practice/Evaluation Form.)
- 3. Verbalize performance checks, e.g., rough and smooth, in the groove, etc.
- 4. Announce "CHECK FIRING SWITCHES."
- 5. Walk/talk through the main gun, then coax checks. (Use Practice/Evaluation Form.)
- Announce "CHECK GUN CONTROLS."
- 7. Walk/talk through the checks. (Use Practice/Evaluation Form.)
- 8. Announce "CHECK GUN STADILIZATION"; pulmb out that Loader would unlock turnet, if unlocked.
- 9. Announce "CHECK FIRE CONTROLS."
- 10. Walk/talk through the checks. (Use Practice/Evaluation Form.)

## PRACTICE

- 1. Announce the Loader prepare-to-fire checks (use Fractice/Evaluation Form).
- 2. Critique performance while reinforcing correct responses.
- 3. Gradually remove all prompts and cues.
- 4. Repeat the prepare-to-fire checks until satisfied with Loader's performance

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Performs loader prepare-to-fire checks correctly and without delay.



TC

COUNTY SECRET REPROSE KNOW

## LOADER

	DEGIN EXERCISE:			GO	NO GO
1.	Announce "PREPARE TO FIRE" and observe performance	1.	feeling replenisher		
	(steps 1-5).	2.			
			crank stop is in rear- ward position.		
		3.	Opens breech, inspects tube and chamber for ob-		
			structions and cleanli- ness, and closes breech.		
		4.	-		
		5.	Inspects <u>all</u> turret		
			stowed ammo for complete ness, type and service- ability.	<del>} -</del>	
2.	Announce "CHECK FIRING SWITCHES" and observe	6.	Places main gun safety switch in FIRE position.		
	performance ( teps 6-12).	7.			
		8.	Announces 'NO FIRE" if		
		9.	<b>▼</b>		
			and has TC/GNR pull trigger.		<del></del>
		10.	Cocks the coax and has the TC/GNR check their triggers.		L
		11.	Recocks coax after each		
		40	check, announcing "NO FIRE" as appropriate.	··	
		12.	cuit tester.		
3.	Announce "CHECK GUN CON-TROLS" and observe perfor-	13.	Checks for traverse obstruction.		
	mance (steps 13-15).	14.	Unlocks turret.		
		15.	Checks hull-stowed ammo for completeness, type,		
			and serviceability (in coordination with	•	
4.	Announce "CHECK GUN STA-	16.	gunner). Unlocks turret (if		
	BILIZATION" and observe performance (step 16).		locked).		
5.	Announce "CHECK GUN CON-TROLS" and observe per-	17.	Performs boresight/zero tasks, if applicable.		
	formance (steps 17-19).	18.	Loads main gun with battlesight ammo, if applicable.		
		19.	Loads coax machinegun, if applicable.		
6. 7.	Announce "REPORT." Score total task performance	20. ce.	Reports "LOADER READY."		

GO NO GO

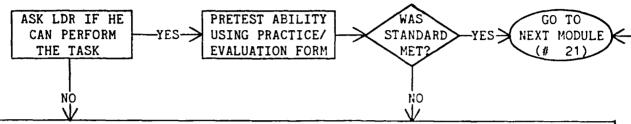
TRAINING MODULE NO: 20

TASK: PERFORM BEFORE/DURING/AFTER OPERATION PMCS.TIME: 2 HOURS

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK; 1 TM 9-2350-253-10.



#### TRAIN THE TASK

### INTRODUCE

COCCURE STATES CHARGES COCCURE BANDARY

- 1. State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.

#### DEMONSTRATE

- 1. Locate the PMCS table in TM 9-2350-253-10.
- 2. Identify the Before, During, and After PMCS requirements.
- 3. Perform each PMCS requirement (use Practice/Evaluation Form).
- 4. Use the TM to obtain information on maintenance task procedures (check engine oil).

## PRACTICE

- 1. Ask the Loader to identify the Before, During, and After Operations PMCS.
- 2. Ask the Loader to describe/perform each PMCS task.
- 3. Provide prompts and cues to guide the task performances.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-5 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Performs Before, During, and After Operation PMCS correctly and without delay.



## BEGIN EXERCISE:

## LOADER

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		HOLD-OPEN LOCKING HANDLES			В	В		В									
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LOADER'S STATION	TURRET LOCK	TURRET LOCK						В	В								
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2. Score task performance.

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## DURING PMCS

## AFTER PMCS

GO	NO	GO	i
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GŌ	NO	GO

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CREW POSITION: LOADER

TASK: REMOVE/INSTALL 105-MM MAIN GUN BREECHBLOCK. TIME: 30 MINUTES
PREREQUISITE TASKS: OPEN/CLOSE 105-MM MAIN GUN BREECHBLOCK MANUALLY.

TRAINING REFERENCES: TM 9-2350-253-10; FM 17-19 E1/2; FK-ARS-15-79
(020-171-9043B); FK 14-79 (020-171-9044B).

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TRAINER; 1 CHAIN HOIST; 4X6
INCH WOOD BLOCK: 1 EYEBOLT: 1 SPANNER-WRENCH: 1

#### TRAIN THE TASK

### INTRODUCE

1. State performance task and training standards in your own words.

SCREWDRIVER.

2. Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Walk/talk through the preliminary checks (use Practice/Evaluation Form).
- 2. Manually open/close breechblock.
- 3. Remove/install firing pin assembly.
- 4. Install eyebolt and mount the chain hoist.
- Decrease/increase tension on closing spring adjuster.
- 6. Position crank stop in removal/installation procedure.
- 7. Remove/install grank pivot and extractors.
- ?. Trin orthogone during installation.

#### PRACTICE

- 1. Instruct Loader to describe each step as he performs it.
- 2. Announce the 1st subtask the loader is to perform (use Practice/Evaluation Form).
- 3. Provide prompts/cues to guide performance.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-4 for each remaining subtask.
- 6. Have Loader run through entire procedure gradually removing prompts/cues.
- 7. Repeat steps 1-6 until satisfied with Loader's performance.

- 1. Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- 3. Test to Standard: Removes and installs 105-MM main gun breechblock correctly and without delay.

TC

## LOADER

	BEGIN EXERCISE:			GO I	NO GO
1.	Announce "REMOVE THE BREECHBLOCK," and observe task performance (steps 1-9)	2.	Conducts preliminary safety checks a. MASTER BATTERY and MAIN GUN switches are OFF. b. Crank stop is fully rearward. Opens/Closes breech.		
		4.	Removes firing pin assembly. Installs eyebolt and		
		5.	mounts chain hoist. Releases ALL tension on Closing Spring Adjsuter.	·	
			Positions Crank stop fully forward. Removes Crank Pivot		
		8.	from T-slot. Removes Extractors.		
		9.	Lowers breechblock and removes chain hoist.		
2.	THE BREECHBLOCK," and	10.	Mounts chain hoist to breechblock. Installs extractors in		
	(steps 10-20).	12.	breechblock. Raises breechblock into		
		13.	breech ring. Installs crank pivot in T-slot.		
		14.	•		
		15. 16.	Raises breechblock to fully closed position. Positions crank stop		
		17.	fully rearward. Applies tension to closing spring adjuster		
		18.	Removes eyebolt and chain hoist.		
		19. 20.	Installs firing pin assembly. Checks operation of		
3.	Score total task performanc		breechblock.	l	L
	GO [		NO GO		

TRAINING MODULE NO:

DISASSEMBLE/ASSEMBLE THE 105-MM MAIN GUN

TIME: 30 MINUTES

BREECHBLOCK.

PREREQUISITE TASKS:

REMOVE 105-MM MAIN GUN BREECHBLOCK.

TRAINING REFERENCES:

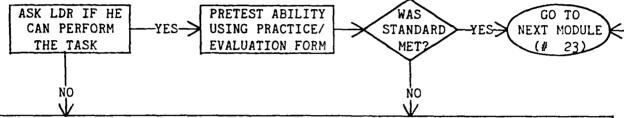
TM 9-2350-253-10: FM 17-19 E1/E2: DAMP/TVPP #10959

TF 17-4651 USATRADOC.

SUPPORT REQUIREMENTS:

1 M60A3 TANK OR TURRET TRAINER: 1 BREECHBLOCK

MECHANISM; 1 STOPWATCH; 1 SCREWDRIVER.



### TRAIN THE TASK

#### INTRODUCE

- State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.

## DEMONSTRATE

- Align the arrows for removal and installation of firing contact assembly.
- Remove firing contact assembly, pointing out location of firing contact plate plunger.
- 3. Lay out each part removed for later installation.
- Remove driver assembly, pointing out position of clamp ("NOTCH" up).
- Install driver assembly and firing contact assembly.

#### PRACTICE

- Instruct Loader to describe each step as he performs it.
- 2. Announce a subtask (use Practice/Evaluation Form).
- Provide prompts/cues to guide performance.
- Critique performance while reinforcing correct responses.
- Repeat steps 1-4 for each remaining subtask.
- Have Loader run through entire procedure gradually removing prompts/cues.
- Repeat steps 1-6 until satisfied with Loader's performance.

- Instruct Loader on performance evaluation procedure and standards. 1.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Disassembles and assembles the 105-MM Main Gun breechblock correctly and without delay.

	TC		LOADER		
	BEGIN EXERCISE:			GO	NO GO
1.	Announce "Disassemble 1 Breechblock," and observe task performance (steps 1-2).	,	Removes Firing Contact Assembly: a. Depresses plunger. b. Turns plate CCW until arrows are aligned. c. Removes plate, plunger, spring, washer, firing contact, and sleeve.		
	2		Removes Driver Assembly a. Removes screw with two lockwashers, and clamp securing drive to breechblock. b. Removes driver from shaft and spring	d	
2.	Announce "STOP. Assemble 3 breechblock," and observe task performance (steps 3-4).		from breechblock. Installs Driver Assembly: a. Installs spring, driver shaft, and		
			driver.  b. Secures driver to breechblock with screw, two lock-washers, and clamp ("NOTCH" up).		
			<ul> <li>Installs Firing Contact</li> <li>Assembly: <ul> <li>a. Inserts firing contact sleeve, firing contact, and plastiwasher.</li> <li>b. Inserts spring and firing contact plunger.</li> <li>c. Positions firing contact plunger.</li> <li>c. Positions firing contact plate in breed block. Depresses a rotates CW until plunger engages locing notch in plate.</li> </ul> </li> </ul>	n- h- nd	L
3.	Score total task performance.	•	ing noten in pidee.		

GO [

no go [

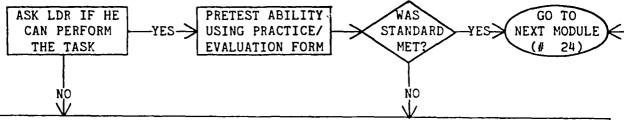
CREW POSITION: LOADER TRAINING MODULE NO: PUT ON AND WEAR THE M25A1 PROTECTIVE MASK. TIME: 30 MINUTES

PREREQUISITE TASKS: NONE.

TRAINING REFERENCES: FM 17-19 E1/2; TM 3-4240-280-10.

SUPPORT REQUIREMENTS: 1 M25A1 PROTECTIVE MASK: 1 STOPWATCH, 1 M60A3 TANK

OR TURRET TRAINER; 1 CVC HELMET.



#### TRAIN THE TASK

#### INTRODUCE

- State performance task and training standards in your own words.
- 2. Emphasize safety requirements and warnings.

#### DEMONSTRATE

- Announce "GAS" noting that the command can be given by any crewmember.
- 2. Put on and take off mask, noting correct and incorrect methods.
- Clear the mask, then check it's operation (leaks).
- 4. Put on and take off the CVC helmet.
- Connect/Disconnect the microphone.
- Repeat the entire procedure, without interruption.

#### PHACTICE

- Instruct Loader to describe each step as he performs it.
- Announce a subtask (use Practice/Evaluation Form). 2.
- Provide prompts and cues to guide performance. 3.
- Critique performance while reinforcing correct responses.
- Have the Loader run through the entire procedure while gradually removing prompts/cues.
- Repeat steps 1-6 until satisfied with Loader's performance.

## EVALUATE

- Instruct Loader on performance evaluation procedure and standards.
- BEGIN EXERCISE as provided on Practice/Evaluation Form. 2.
- Test to Standard: Puts on and wears the M25A1 protective mask correctly and without delay.

STANDARD ·NO: YES.

	<u>TC</u>		LOADER			
	BEGIN EXERCISE:			GO	NO GO	_
1. Announce "PUT ON AND WEAR THE M25A1 PROTECTIVE MASK," and observe performance		Stops breathing (momen-tarily).				
	(steps 1-9).	2.	Removes CVC helmet and places it between knees.			_
		3.	Removes mask from carrier.			
		4.	Opens face piece by placing thumbs under (and little fingers over) neck strap — separates hands.			
		5.	Puts chin in mask pocket and lifts hands over head.			
		6.	Slips head harness over head while pull- ing mask up onto face.			_
		7.	Smooth edges, head harness straps, and pad against face.			
		8.	Clears mask by placing palm over bottom of outlet valve cover.			
		9.	Checks mask for leaks and tightens straps, if necessary.			
2.	Score total task performance	e.		•		

GO [

NO GO [

TRAINING MODULE NO:

TASK: OPERATE THE GAS-PARTICULATE FILTER UNIT. TIME

TIME: 15 MINUTES

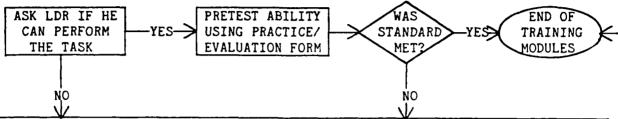
PREREQUISITE TASKS: PUT ON AND WEAR THE M25A1 PROTECTIVE MASK.

TRAINING REFERENCES: TM 9-2350-253-10.

SUPPORT REQUIREMENTS: 1 M60A3 TANK OR TURRET TR.

1 M60A3 TANK OR TURRET TRAINER; 1 M25A1 PROTECTIVE

MASK.



## TRAIN THE TASK

#### INTRODUCE

- 1. State performance task and training standards in your own words.
- 2. Discuss operation of gas particulate filter unit, M3 air heater, and M25A1 protective mask.
- 3. Emphasize safety requirements and warnings.

### DEMONSTRATE

- 1. Show where and how the gas particulate unit is turned on (driver).
- 2. Show where and how to open air intakes on precleaner and particulate filter unit assembly (driver).
- 3. Put on the M25A1 protective mask.
- 4. Show where and how to adjust air temperature using the M3 air heater controls.
- 5. Papent the entire procedure, without interruption.
- 6. Return equipment/controls to initial status.

#### PRACTICE

- Instruct Loader to describe each step as he performs it.
- 2. Announce a subtask (use Practice/Evaluation Form).
- 3. Provide prompts or cues, as needed, to guide performance.
- 4. Critique performance while reinforcing correct responses.
- 5. Repeat steps 1-5 until satisfied with Loader's performance.

### EVALUATE

- Instruct Loader on performance evaluation procedure and standards.
- 2. BEGIN EXERCISE as provided on Practice/Evaluation Form.
- Test to Standard: Operates gas-particulate filter unit correctly and without delay.

WAS STANDARD MET?

	<u>TC</u>		LOADER	
	BEGIN EXERCISE:			GO NO GO
	Announce "Operate the Gas- Particulate Filter Unit," and observe performance (steps 1-4).	1.	Puts on and adjusts M25A1 protective mask.	
		2.	Disconnects hose from connector.	
		3.	Connects hose to M25A1/protective mask caniste	
		4.	Turns M3 air heater knob from OFF until indicator lights and adjusts air temperature	·.
2.	Announce "STOP. RETURN EQUIPMENT TO INITIAL CON-DITION," and observe performance (steps 5-7).	5.	Turns M3 air heater knob to OFF.	
		6.	Disconnects hose from M25A1 protective mask canister and couples to connector.	·
		7.	Removes M25A1 protective mask and stows in carrier.	
3.	Score total task performance	ce.		
	GO [		NO GO	